					GCCCCGCCCA .
			CGGTCTCGCC		
. 101	TGACTTCCTC	GGCCAGGCCG	CCTGCGCCTC	TGGGACCATG	TTGCGCTGGC .
. 151	TGCGGGACTT	CGCGCTGCCC	ACCGCGGCCT.	GCCAGGACGC	GGAGCAGCCG,
201	ACGCGCTACG	AGACCCTCTT	CCAGGCACTG	GACCGCAATG	GGGACGGAGT
					GGCATCCCTC
			AAAATTTTTA		
			AGAATTTATG		
			TTAAGAGTTT		
			GTCCAGTCTC		
			GTTGATTCTT		
			ATGAATGGAG		
			ATTATCCGTT		
			AACTATTCCA		
			GGAGGCAGCT		
					GAAAATCATG
			ATCAGACAAA		
					AGGGGAAATG .
	and the second s				ATTCTGGGCA
			ACTTACTGAA		
			GTTCCATGGC		
			ATGAAAACCA		
			TGATTGTGCC		
			AAGGCTATGT		
			CITICITIG		
			AGATTCTGTA		
			CCAGCACCTG		
			CGCATGCAGG		
			TGGCCTCTTT		
			GAGGCATCAC		
			TATGTGGTTT		
					GCCTGATAAT.
					AATTGAAACA .
					AAGACGGTAA .
			TGGGCTAAAT		
1751	CAAAATCATA	GTTTTAATGT.	GTTTTGAAAA	GGCCACACAA	TTATACTTTA .
1801	TCTTTCTTA	ATAATCCTGC	AAATCTCTGC	CCTGAATCCG	AAATCTGAAA .
1851	ATGTACTGGC	TTGAACAAAA	THIGHTIGH	GTGTTAGAGT	TATAAATCAT .
1901	TAATCTTTAT.	TTCGGGTGGT.	TTACGTTTAT.	GCCAGTTCCT	TTATATTTAA .
			TGAATGTCTT		
2001	CTTATAGAAC	CATTAATAGA	AAATCATTAC	ATTTAAAAATA	TACCTTACAG.
2051	CAAAAGCATC	CAAATAAGTA	TAGGGTTTAT	GTCCTTATTT	TTCTTTCAGC .
2101	TGAATACGAA	TGAACACAGT	GGTGGAATTT	CTGAAGGGAA	GTGATGAAAT .
					ACCATTATTT.
2201	GGTTCCTGGA	GTTATACACT	AATTTTCAGT	ATATTACTGT	TAAATTACCA
					ATTGCTTTGA .
					CTGCAGAGCA
					CAGATTCCGT
					GAAATTTCTT
			TTGATCATGA		
					ATATGGGCAG
					ATGACTTCTG.
					TTTGGGGAAA
			CTG (SEQ II		
2001	STIAIACOA	ISCATONITI.	בוט לאבע דו	· 10.13.	•

FEATURES: 5'UTR: 1-137 Start Codon: 138 Stop Codon: 1569 3'UTR: 1572 HOMOLOGOUS PROTEINS: Top BLAST Hits: ... Score . CRA|335001098641184 /altid=gi|11360341 /def=pir||T50686 peroxis... 927 0.0 CRA|18000005183605 /altid=gi|7504235 /def=pir||T22688 hypotheti... 432 e-120 CRA|1000682325160 /altid=gi|7499323 /def=pir||T21074 hypothetic... 377 e-103 377. e-103 CRA|89000000196990 /altid=gi|7294582 /def=gb|AAF49922.1| (AE003.... 348 9e-95 CRA|150000075553401 /altid=gi|9758252 /def=dbj|BAB08751.1| (ABO... 339 5e-92 CRA|335001098657884 /altid=gi|11358611 /def=pir||T49871 peroxis... 330 2e-89 CRA|163000046661776 /altid=gi|10176874 /def=dbj|BAB10081.1| (AB... 326 4e-88 CRA|105000014652720 /altid=gi|10798831 /def=dbj|BAB16462.1| (AP... 200 3e-50 CRA|335001098655048 /altid=gi|11277065 /def=pir||T47703 Ca-depe... 199 6e-50 **BLAST dbEST hits:**

 gi | 10145202 / dataset=dbest / taxon=96...
 1108 0.0

 gi | 1437155 / dataset=dbest / taxon=9606...
 801 0.0

 gi | 10333851 / dataset=dbest / taxon=96...
 745 0.0

 gi | 8469752 / dataset=dbest / taxon=960...
 363 8e-98

 gi | 11084041 / dataset=dbest / taxon=960...
 307 40-81

 gi|11684041 /dataset=dbest /taxon=96... .: 307 . 4e-81 EXPRESSION INFORMATION FOR MODULATORY USE: library source: Expression information from BLAST dbEST hits: gi|10145202 Placenta Choriocarcinoma gi|1437155 Retina gi | 10333851 Uterus leiomyosarcoma gi | 8469752 Breast gi 11684041 Ovary fibrotheoma

Expression information from PCR-based tissue screening panels:

Leukocyte

FIGURE 1B

```
1 MLRWLRDFAL PTAACQDAEQ PTRYETLFQA LDRNGDGVVD IGELQEGLRN
   51 LGIPLGQDAE EKIFTTGDVN KDGKLDFEEF MKYLKDHEKK MKLAFKSLDK
  101 NNDGKIEASE IVQSLQTLGL TISEQQAELI LQSIDVDGTM TVDWNEWRDY.
  151 FLFNPVTDIE EIIRFWKHST GIDIGDSLTI PDEFTEDEKK SGQWWRQLLA
  201 GGIAGAVSRT STAPLDRLKI MMQVHGSKSD KMNIFGGFRQ MVKEGGIRSL
251 WRGNGTNVIK IAPETAVKFW AYEQYKKLLT EEGOKIGTFE RFISGSMAGA
301 TAQTFIYPME VMKTRLAVGK TGQYSGIYDC AKKILKHEGL GAFYKGYVPN
  351 LLGIIPYAGI DLAVYELLKS YWLDNFAKDS VNPGVMVLLG CGALSSTCGQ
  401 LASYPLALVR TRMQAQAMLE GSPQLNMVGL FRRIISKEGI PGLYRGITPN
  451 FMKVLPAVGI SYVVYENMKQ TLGVTQK (SEQ ID NO:2)
FEATURES:
Functional domains and key regions:
[1] PDOCO0001 PS00001 ASN_GLYCOSYLATION
N-glycosylation site
            254-257 NGTN (SEQ ID NO:7)
[2] PDOC00005 PS00005 PKC_PHOSPHO_SITE
Protein kinase C phosphorylation site
Number of matches: 2
  imber of matches: 2
1 229-231 SDK
 [3] PDOC00006 PS00006 CK2_PHOSPHO_SITE
Casein kinase II phosphorylation site
Number of matches: 8
1 22-25 TRYE (SEQ ID NO:8)
              65-68 TTGD (SEQ ID NO:9)
3 121-124 TISE (SEQ ID NO:10)

4 157-160 TDIE (SEQ ID NO:11)

5 170-173 TGID (SEQ ID NO:12)

6 179-182 TIPD (SEQ ID NO:13)
7 ... 185-188 TEDE (SEQ ID NO:14)
8 227-230 SKSD (SEQ ID NO:15)
[4] PDOCOOOO8 PSOOOO8 MYRISTYL
N-myristoylation site
Number of matches: 16
   1 52-57 GIPLGQ (SEQ ID NO:16)
2 119-124 GLTISE (SEQ ID NO:17)
3 171-176 GIDIGD (SEQ ID NO:18)

4 201-206 GGIAGA (SEQ ID NO:19)

5 202-207 GIAGAV (SEQ ID NO:20)

6 245-250 GGIRSL (SEQ ID NO:21)

7 253-258 GNGTDN (SEQ ID NO:22)
7 253-258 GNGTNV (SEQ ID NO:22)
8 283-288 GQKIGT. (SEQ ID NO:23)
9 295-300 GSMAGA (SEQ ID NO:24)
10 322-327 GQYSGI (SEQ ID NO:25)
11 326-331 GIYDCA (SEQ ID NO:26)
12 359-364 GIDLAV (SEQ ID NO:27)
13 392-397 GALSST (SEQ ID NO:28)
14 399-404 GDLASY (SEO ID NO:29)
```

399-404 GQLASY

(SEQ ID NO:29)

	15 442-447 GLYRGI (SEQ ID NO:30) 16 446-451 GITPNF (SEQ ID NO:31)	
•	[5] PDOC00018 PS00018 EF_HAND EF-hand calcium-binding domain	
	Number of matches: 3 1 32-44 DRNGDGVVDIGEL (SEQ ID NO:32) 2 68-80 DVNKDGKLDFEEF (SEQ ID NO:33) 3 99-111 DKNNDGKIEASEI (SEQ ID NO:34)	
	Membrane spanning structure and domains: Helix Begin End Score Certainty 1 292 312 1.053 Certain 2 345 365 0.613 Putative 3 381 401 1.544 Certain 4 446 466 0.733 Putative	
	BLAST Alignment to Top Hit: >CRA 335001098641184 /altid=gi 11360341 /def=pir T50686 peroxisomal Ca-dependent solute carrier [imported] - rabbit /org=rabbit /taxon=9986 /dataset=nraa /length=475 Length = 475	٠
	Score = 927 bits (2371), Expect = 0.0 Identities = 454/477 (95%), Positives = 466/477 (97%), Gaps = 2/477 (0%	6 .
	Query: 1 MLRWLRDFALPTAACQDAEQPTRYETLFQALDRNGDGVVDIGELQEGLRNLGIPLGQDAE MLRWLR F LPTAACQ AE PTRYETLFQALDRNGDGVVDI ELQEGL++LGIPLGQDAE Sbjct: 1 MLRWLRGFVLPTAACQGAEPPTRYETLFQALDRNGDGVVDIRELQEGLKSLGIPLGQDAE	
	Query: 61 EKIFTTGDVNKDGKLDFEEFMKYLKDHEKKMKLAFKSLDKNNDGKIEASEIVQSLQTLGL EKIFTTGDVNKDGKLDFEEFMKYLKDHEKKMKLAFKSLDKNNDGKIEASEIVQSLQTLGL Sbjct: 61 EKIFTTGDVNKDGKLDFEEFMKYLKDHEKKMKLAFKSLDKNNDGKIEASEIVQSLQTLGL	
	Query: 121 TISEQQAELILQSIDVDGTMTVDWNEWRDYFLFNPVTDIEEIIRFWKHSTGIDIGDSLTI TISEQQAELILQSID DGTMTVDWNEWRDYFLFNPV DIEEIIRFWKHSTGIDIGDSLTI Sbjct: 121 TISEQQAELILQSIDADGTMTVDWNEWRDYFLFNPVADIEEIIRFWKHSTGIDIGDSLTI	
	Query: 181 PDEFTEDEKKSGQWRQLLAGGIAGAVSRTSTAPLDRLKIMMQVHGSKSDKMNIFGGFRQ PDEFTE+E+KSGQWRQLLAGGIAGAVSRTSTAPLDRLK+MMQVHGSKS MNIFGGFRQ Sbjct: 181 PDEFTEEERKSGQWRQLLAGGIAGAVSRTSTAPLDRLKVMMQVHGSKSMNIFGGFRQ	
	Query: 241 MVKEGGIRSLWRGNGTNVIKIAPETAVKFWAYEQYKKLLTEEGQKIGTFERFISGSMAGA MHKEGGHRSLWRGNGTNVIKIAPETAVKFW YEQYKKLLTEEGQKIGTFERFISGSMAGA Sbjct: 239 MIKEGGVRSLWRGNGTNVIKIAPETAVKFWYEQYKKLLTEEGQKIGTFERFISGSMAGA	
	Query: 301 TAQTFIYPMEVMKTRLAVGKTGQYSGIYDCAKKILKHEGLGAFYKGYVPNLLGIIPYAGI TAQTFIYPMEVMKTRLAVGKTGQYSGIYDCAKKILK+EG GAFYKGYVPNLLGIIPYAGI Sbjct: 299 TAQTFIYPMEVMKTRLAVGKTGQYSGIYDCAKKILKYEGFGAFYKGYVPNLLGIIPYAGI	
	Query: 361 DLAVYELLKSYWLDNFAKDSVNPGVMVLLGCGALSSTCGQLASYPLALVRTRMQAQAMLE DLAVYELLKS+WLDNFAKDSVNPGV+VLLGCGALSSTCGQLASYPLALVRTRMQAQAMLE Sbjct: 359 DLAVYELLKSHWLDNFAKDSVNPGVLVLLGCGALSSTCGQLASYPLALVRTRMQAQAMLE	•

477 of Sbjct:	SEQ 419	GSPQLNMVGLFRRIISKEGIPGLYRGITPNFMKVLPAVGISYVVYENMKQTLGVTQK 47: ID NO:2) G+PQLNMVGLFRRIISKEG+PGLYRGITPNFMKVLPAVGISYVVYENMKQTLGVTQK GAPQLNMVGLFRRIISKEGLPGLYRGITPNFMKVLPAVGISYVVYENMKQTLGVTQK 47:		sidues	s 1-
(SEQ II)-NO:	:4)			
>CRA 1		479457833 /altid=gi 6841066 /def=gb AAF28888.1 AF123303_1 (AF123303) calcium-binding transporter [Homo sapiens] /org=Homo sapiens /taxon=9606 /dataset=nraa /length=411 Length = 411			٠.
Score Ident	= 8 ities	834 bits (2132), Expect = 0.0 s = 409/410 (99%), Positives = 409/410 (99%)			
		FALPTAACQDAEQPTRYETLFQALDRNGDGVVDIGELQEGLRNLGIPLGQDAEEKIFTTG F LPTAACQDAEQPTRYETLFQALDRNGDGVVDIGELQEGLRNLGIPLGQDAEEKIFTTG FVLPTAACQDAEQPTRYETLFQALDRNGDGVVDIGELQEGLRNLGIPLGQDAEEKIFTTG			
		DVNKDGKLDFEEFMKYLKDHEKKMKLAFKSLDKNNDGKIEASEIVQSLQTLGLTISEQQA DVNKDGKLDFEEFMKYLKDHEKKMKLAFKSLDKNNDGKIEASEIVQSLQTLGLTISEQQA DVNKDGKLDFEEFMKYLKDHEKKMKLAFKSLDKNNDGKIEASEIVQSLQTLGLTISEQQA			
		ELILQSIDVDGTMTVDWNEWRDYFLFNPVTDIEEIIRFWKHSTGIDIGDSLTIPDEFTED ELILQSIDVDGTMTVDWNEWRDYFLFNPVTDIEEIIRFWKHSTGIDIGDSLTIPDEFTED ELILQSIDVDGTMTVDWNEWRDYFLFNPVTDIEEIIRFWKHSTGIDIGDSLTIPDEFTED			
		EKKSGQWWRQLLAGGIAGAVSRTSTAPLDRLKIMMQVHGSKSDKMNIFGGFRQMVKEGGI EKKSGQWWRQLLAGGIAGAVSRTSTAPLDRLKIMMQVHGSKSDKMNIFGGFRQMVKEGGI EKKSGQWWRQLLAGGIAGAVSRTSTAPLDRLKIMMQVHGSKSDKMNIFGGFRQMVKEGGI		•	٠.
		RSLWRGNGTNVIKIAPETAVKFWAYEQYKKLLTEEGQKIGTFERFISGSMAGATAQTFIY RSLWRGNGTNVIKIAPETAVKFWAYEQYKKLLTEEGQKIGTFERFISGSMAGATAQTFIY RSLWRGNGTNVIKIAPETAVKFWAYEQYKKLLTEEGQKIGTFERFISGSMAGATAQTFIY			
		PMEVMKTRLAVGKTGQYSGIYDCAKKILKHEGLGAFYKGYVPNLLGIIPYAGIDLAVYEL PMEVMKTRLAVGKTGQYSGIYDCAKKILKHEGLGAFYKGYVPNLLGIIPYAGIDLAVYEL PMEVMKTRLAVGKTGQYSGIYDCAKKILKHEGLGAFYKGYVPNLLGIIPYAGIDLAVYEL			. ,
Query: SEQ ID		LKSYWLDNFAKDSVNPGVMVLLGCGALSSTCGQLASYPLALVRTRMQAQA 417 (resid	dues 8	8-417	of.
Sbjct: (SEQ 1	361	LKSYWLDNFAKDSVNPGVMVLLGCGALSSTCGQLASYPLALVRTRMQAQA LKSYWLDNFAKDSVNPGVMVLLGCGALSSTCGQLASYPLALVRTRMQAQA 410 D:5)		•	
Score Ident	= 80 ities	0.0 bits (194), Expect = 6e-14 s = 80/388 (20%), Positives = 156/388 (39%), Gaps = 59/388 (19	5%).		•
		FKSLDKNNDGKIEASEIVQSLQTLGLTISEQQAELILQSIDVDGTMTVDWNEWRDYFL F++LD+N DG ++ E+ + L+ LG+ + + E I + DV DG +			•
SDJCT:	ZI .	FQALDRNGDGVVDIGELQEGLRNLGIPLGQDAEEKIFTTGDVNKDGKL	Ьδ		
		FNPVTDIEEIIRFWKHSTGIDIGDSLTIPDEFTEDEKKSGQWWRQLLAGGIAGAVSRTST. D EE +++ K + EKK ++ EK ++ L +			
SDJCT:	69	DFEERMKYLKDHEKKMKLAFKSLDKNNDGKIEASEIV	T02		
		APLDRLKIMMQVHGSKSDKMNIFGGFRQMVKEGGIRSLWRGNGTNVIKIAPETAVKFWAY. L L + + + + I + I V R + N I E ++FW +			
Sbjct:	106	QSLQTLGLTISEQQAELILQSIDVDGTMTVDwNEWRDYFLFNPVTDIEEIIRFWKH	~161		•

Query: 273 EQYKKLLTEEGQKIGTFER-FISGSMAGATAQTFIYPMEVMKTRLAV-GKT 321
+ TE+ +K G + R ++G +AGA ++T P++ +K + V G Sbjct: 162 STGIDIGDSLTIPDEFTEDEKKSGQWRQLLAGGIAGAVSRTSTAPLDRLKIMMQVHGSK 221
Query: 322 GQYSGTYDCAKKILKHEGLGAFYKGYVPNLLGIIPYAGTDLAVYELLKSYWLDNFAKDSV 381
I+ . +++K . G+ + ++G N++ I P . + YE . K ++ .
Sbjct: 222 SDKMNIFGGFRQMVKEGGIRSLWRGNGTNVIKIAPETAVKFWAYEQYKKLLTEEGQ 277
Query: 382 NPGVMVLLGCGALSSTCGQLASYPLALVRTRMQAQAMLEGSPQLNMVGLFRRIISKEGIP 441
G G+++ Q YP+ +++TR+ A+ + +++I+ EG+ Sbjct: 278 KIGTFERFISGSMAGATAQTFIYPMEVMKTRLAVGKTGQYSGIYDCAKKILKHEGLG 334
Query: 442 GLYRGITPNFMKVLPAVGISYVVYENMK 469 (residues 95-469 of SEQ ID NO:2)
Y+G PN + ++P GI VYE +K Sbjct: 335 AFYKGYVPNLLGIIPYAGIDLAVYELLK 362 (SEQ ID NO:6)
Hmmer search results (Pfam):ScoreE-valueNModelDescriptionScoreE-valueNPF00153Mitochondrial carrier proteins305.43e-881
PEOOT 53 Mitochondrial carrier proteins 305 4 39-88 1
PF00036 EF hand 50.7 1.7e-12 3
PF00036 EF hand 50.7 1.7e-12 3 PF00404 Dockerin domain type I 9.7 0.26 1 PF01978 Protein of unknown function 2.7 9.5 1
PF01978 Protein of unknown function 2.7 9.5 1
Parsed for domains:
<u>Model Domain seq-f seq-t hmm-f hmm-t score E-value</u> PF00036 1/3 27 51 5 29 .] 18.7 0.002
PF00404 1/1 67 85 1 22 [] 9.7 0.26
PF00404 1/1 67 85 1 22 [] 9.7 0.26 PF00036 2/3 61 87 3 29 .] 19.7 0.001
PF00036 3/3 90 118 1 29 [] 17.2 0.0051 PF01978 1/1 110 121 1 13 [. 2.7 9.5
PF019/8 1/1 110 121 1 13 [. 2./ 9.5 PF00153 1/1 193 472 1 313 [] 305.4 3e=88
LI 00773 T/ T

1 AACCCATGTT, AGTGTGCAGT, TCTGCTGGCA CACACATGCA GTTGTGTAAC 51 CACTACCACC AAAAGCAAGA TGTAAAATAG CTCCATCACC CCCACAAGCC 101 TICTGATGCT CITTTGTCAT CAATTCCCTT CCCGCTAGTC ACAACTGGTA
151 ACTACTGATT TGTTTTCTGT CCCTATAGTT TTGCCTTTTC CAGAATGTCA
201 TTGTTGACAG GTATCAGTAA TTCATTCCTT TTTATTGCTA ATTACTATCT 251 CACTGTATGA ATGCAACACA GGTTGTTTAC CAGTTCACCC GTTAAAGAAC 301 ATTITIGTITC TGCGCTTGAC AGTTATGAAT AGAACTGCTA TAAACCCTCA 351 AGTAAAAGTT TTGGTGTGAA GATAATTTTC TCAGCAAAAA CGCTGACAGG 401 TAATTTTTCT AAGTATTACT TTTTTAAAAA AGTAAAATAG CCTGTAGCCC 451 CAGCTACTCA GGAGGCTGAG GCAGGAGAAT AGCTTGAACC CAGGAGGCGG 501 AGGTTGCAGT GAGTTGAGAT TGTGCCACTG CATTCCAGCC TGGGCGACAG 551 AGCTAGACTG TCTCAAAGAA AAAAAAAAA AATAACAAAT. AAATAAAAAG 601 TAAAATGAAA GCATGTAAGT GTAAGATGAC TAGTTCAAGC AACCTCTCTT 651 CAAGTACAGA GTATTCAGAG TAGAGATTAA AAGAGGTTTT CAAGGACAGA 701 GAAAATTTGA AGTTTGAAGG CAGTTCCAAA GGAAGGCAAT GATTCTTAAT 751 AAGACTGGAA GTTGGAAGTA ATATAAAAAG ATAAATCAGT TTCAAGATGA 801 TTTTACTAAG CAGGCAGCCC TTAATTTACA AATTCTAGAT TCATACATAT. 851 CTTAAACATA CAAAATGATA TGAGGAGAGG TAAGTTCAGG GTCTGAGTTC 901 CTGGCTGTTG TTGGAACTGA TTTCTGTGTA GTGATTCAGA AGATGTGAGA . 951 CACCCTAATT TACAAGTACA GAGGTATCTT CTTTTCTGCA AACAGCAGTA 1001 CAACAATAGT TCCTCTTACG CAGCTGTGAA TGAACAGGAT TATTACAATT 1051 AATGATATCT CATTIGATIG GCGCCTTAGA GAATTAAGAC CTTTCACACC 1101 TAATATACAA CTTTGTTGTG AAGGCAGATA TTTATATTCT CATTTTACTG 1151 ATGAGAGACT, ACCCGGAGAC GCTATGTCAC: ACCTGAAGGA TTAGGTACTT. 1201 TCTCTGTTAA GTCCAATGTT CCTTCCGTTA TTCCATGCTA GGCAGTAATA 1251 AGTTCTGTCT TGCCTGAGTA ATAAGCTCCA AACCTCGGAA CTGCACCCAT. 1301 CTTGAGAAGG AGGAGGGCGC TGTGGTTTTT. TCTGATAAGT GCAGCTGGCA
1351 GACACTCTAT. ACGCTTAATC ACGGGCAAAT. CCTACCTAAG CTGCCTACCA
1401 AACTAGTCCT. TCTTTTCCCC GTTGCCCACG CAGATGGCTG TTGATCTTTT
1451 CTGCAACAAA TCCAGGAGTT. TCTCCTTTTT. GTTTTATAAT. TGCTCCAATA
1501 GATGCTTTAG GATTTAACTC TCTGCTTTTT. AAAGCAGAAT. CGCCATCCCA
1551 GGTGTGCAAA 1551 GGTGTGCAAC CACGAAAAAA TTAGACATCC GTGAGAGACA ATGCCCTCCA 1601 TGGCCCAGTT TCCAGGCAGA GAGAAGCAGC TCTGGGCTGA CCGCCAAGGC 1651 TCCGGCCCGA GAGGGTCTTT AAGTGGAGTA ACCAGTCTTC AAGACCCCGC 1701 TCCCAAGCCA CCGACGCGCT GACGCTGCAG CCCTGGACCT GCTGGGGGCC 1751 TCTTCCTCGG ACCCGCATGC TGACAGCGGG ACTGGCAACT GGGCAGAGGT 1801 CGACCCCGGG TCCGCACAGC ACCTCCCGAG ACCCAGCTCC CAGCTCCCTC 1851 ACTTCCGGCT CTCTGGAGGC GGGCCCGGCC AGTGCCGCCG AGGCCAGCGC 1901 GGCGAGCTCC TCCCCAGCAG CGGCGGACG GCCACACCCT GCGCGCCGCG 1951 CGGGCTCGGG TGGGGTCTCC GCTCCTGCGC CCTGCGCCC GCAGCCGCAC 2001 CCCCGACGGC GCCCCAAACG CTGTTGCGCC GCGCGCCCG CCCAGCCCGG 2051 CCTCGGCCTG GTCCCGGTCT CGCCCCGCAG CCCTCGATCT CCCGTGACTT 2101 CCTCGGCCAG GCCGCCTGCG CCTTGGGGC CATGTTGCGC TGGCTGCGGG 2151 ACTTCGTGCT GCCCACCGCG GCCTGCCAGG ACGCGGAGCA GCCGACGCGC 2201 TACGAGACCC TCTTCCAGGC ACTGGACCGC AATGGGGACG GAGTGGTGGA 2251 CATCGGCGAG CTGCAGGAGG GGCTCAGGAA CCTGGGCATC CCTCTGGGCC 2301 AGGACGCCGA GGAGGTGGGT CGCCGCCGGG GCGCCGCCTG AGCGTAGGGA 2351 GGGCTGCGGG CGCTGGGGAC ACTGCGAGGA CCGAGGAGGG CGGCGGCTTG 2401 AGGCGTTGCC AGGAGAGGAA GGAGGAACTG TGGCGCCCAG CGCTCCGGTG 2451 GCTTCAGAAA CTCGGGCGTG GGGCCGCGAC CGGCGACCCC GGTAACAGAA? 2501 GTGGGTCATA ATACGAAAGT CTACTGGTAT TTGTCCAGAT AAAATGAGTG 2551 TIGTGGACAC TCTGGCCCAC GGGCACTGTT AAATTTTTAA GACACTTTTG
2601 TCCTGAATCC ATCCCAGGTT CTTTGTTTTC TGTTTTAATA CCTTGCAGAC
2651 ATGTAATCCG TTTTAGCTGT CAGACTTCAG TGGGTCCCAA GTTTTGTATA
2701 AAGGCGCACA CATTCGATCT CTTTCGAAGC TGCTTTGTTA CAGCAGCTAT 2751 GTGTATTGTC TACTGTTTGA AAACTGTTTG AAAACCAATC GCGTGTTTCC 2801 CCCACTTCCT GTTGAGAAGG AATGGCGGCA TTCCATTGTT TAAGACATTC 2851 CTAGGTTAAT GCCCTAGGTA CATAAATTGA TCTGAAGGGT TGACTTGACC

						`
	2901	TGCGACTGAG	CAATTTCATT	TTCTCTGAGT	CATCTTAACT	GTGCCCCTGA
			CTTTAGTAGG			
			CCCTGACACT			
•			ATGAGGGCCA			
•			CTTTGGTAGT			
+			TTAGTAAGTT			
			AATACTCACC			
			TCTCTATTTC			
			AAGTTTTGTG			
			TGTGCTGATT.			
			ATCATTGGCT.			
	3451	TGCAGTGCAT	CAGCAGATGC	CAGGGTTAGA	GGCTAGAGAG	TGGAAGTCAA
			CACAGTAGGT.			
			CTACAATATA			
	3601	TAAGATTGTA	AAGGGATCCT.	GAGATCAAAA	AGCTTGAGAA	TTGCTGCTGT
			TTACGTAACT.			
	3701	AGTATATGTT.	ACCAATTCTT.	TTTAAATCAC	CTTTTACTTT.	ATTGATAGTT
	3751	TAAAAACGAT.	TGTAAGTGAA	ATTGCAATGG	ATGTCCTTTG	TATTCATTIT.
	3801	CTCATTCTGG	TCCAGTTACT.	TTCGTAGGAT	AAATTTTGAG	GAGTGGACAT
	3851	TGCTGAGTCT	GAAGGTAACA	CACATTTTAA	ACTGGGATAC	GTATTGCCTT.
_			TAGACCCATT			
			CGCTCATTCA			
			ATTCCTTTTC			
•			ATCTGAGACA			
•			TCCGCAGGCT			
•			CTGGGGAGGG			
•			AAGTGGACAT.			
•			GCAACCCAGC			
			CTCATGAGAG			
٠.			TCATGAGGGA			
•			TCCCAACACG			
			GACAAACAAA			
•			CCACAGGATT			
٠			TTGGTTTACT			
•			ACACCCAGAA			
			CGAGTTGATA			
			CACAGTCAAC			
			GTAATGTCAA			
			TGTGGGGTGA			
	4001	IIGIAICIAA	GCCAAATACT	CAGCIIGAAG	CAMATCICI.	ATAAALITIC
	4901	AICIGATTIG	ATCTCATCTC	CGIGITICCA	AGCATTIGIA	AIGAAIIGAG.
	495 <u>T</u>	CATTIAGAAG	AGAACAAATT	TCIGITIAAG	TITCITIAGA	IIIIAGAIGG
			GAAATAAGAG			
			ATTACTAAGT			
			AGTCCTGAGA			
			TTTTTCTGG			
•			TGAAATTAGT.			
			TTCTCCTAGG			
			TGTGAGAACA			
			TGTCTAGTAA			
_			CGCACCTCCT			
			CTGTGGAGCC			
	5501	GTGACCTGGA	AGACCTTCCT.	TGCCCCTTCC	ACCATGTGAG	GACACAGTGA
			GTCCATGGAA			
			CTTCGATCTA			
			TGTTTAAGTA			
			GACAATTACC			
			TCCTTGGTGT.			
						

5801 AGCCTTACTG GAGCTTTACT TTCTTATTCT. TAAAATGCAG ATATCTTGCC . 5851 TGCATCCTGG ACAGAGCTTT TAACAAGGTC ATATGTTGCA GAATATGAAA . 5901 GTTCATGTTA AAAAACCCTT. TAAAATGTGG TATCCCATTT ACTAGCTGGT 5951 GAACTTCTTG AGGAACCTCT GTGCCCATGG GTATGAAGTG TATGCTGAAT 6001 GATCACCCAA TGTTAGAGGA GTGGGTGGAC TGGTAACCTG ATTTAAGGGC 6051 CATTCTAACT CTTACATTCT ATGATTTTTT TAATTCTGTC TITAAGTTTT 6101 TACATTTACA ATCACAGAAA AAATAGTCAC ATAGAAGAAT AGTAGCTTAG 6151 CAAATGTTTA TTGCATTGAG TGGAATCAGG ATTTCACTCC ATTAAGTAAT. 6201 TCCTCTGTTA ACAAAGAGGG TTCATTTCAT TTTTATTTCA TTAATATTGC 6251 TTTTTTTTT TTTTTCTGG AGACAGAATC TTGCTCTATC ACCAAGGCTG 6301 GAGTGCAGTG GTGCGATCTC GGCTCACTGC AGCCTCTGCT TCCTGGATTC 6351 AAGCGATTCT, TGTGCCTCAG CCTCCCAAGC AGCTGAGATT, ACAGGCACAT. 6401 GCCACCACAC CTGGTTAACT TTTGTATTTT CTAGTAGAGA TGGGATTTTG 6451 CCATGTTGGT CAGGCTGGTC TTGAATTCCT GGCCTCTAGT GATCTGCCTG 6501 CCTCTGCCTC TGAAAGTGCT. AAGATTACAG GCATGAGCTA CCATGGCCAG 6551 CCCATTTCCT. TAATATTTTA ATTGTCAGAC ATGTTATGGT. TTCTGGCACA 6601 ATATTAAGAA GACATGATAT GAAATCACAG GGTGAATTTT AGGGCATCAC 6651 AACAGAAAGA TTATGGTATA AGAAAAACAA TGGAATTCCA ACTACATTTC 6701 TGTCAAATGT TCTAAAATAT ATAAAATCTG TATCTTTTGT GTTCTCTCCT 6751 GATITATATT CTAAATITGA TGTTATCCTT CTCTGCAGAA ATAAAGTGTC 6801 TGAAAGAATG AAAAAAATGG AAGAATTCTT TAGTAAGGTA TAAAATACCC . 6851 TTTCTATCTT TGTAGCATTC TAAGCCTTTT GTCACCTTTC CAAACTCCCA 6901 ACATGCCATA TTCCCTGACT AGGCCACAGC CATGTACATT GATCCCTTTA 6951 TITTCTTCTC TCTGCCTGAG ATTTCTCTCA TTCCCCCCTTC TCTGCCTGGT. 7001 ATATGATTGC CCATTGTTTA AGGCCCCAAC TCACCTTTAT AATCTTCCTA ., 7051 GCCCACTTTC TTTATCGGTA TTCCAGAAAA AACAAAAGAA GCTTCCACAA . 7101 GACAACATTC TGTAATACAC TGCTTAACTT CTTTTGACCC TGCTGAGTTC . 7151 AAAAATCTTA TCTTTTTAAG GATTGAATGG AGTCCACCAA GGTATCTATA . 7201 TITGACAGGA TITATGAAAA CAAAAGGATT TGTTGAGAAA GTTTGAAGCC 7251 TAACTCTGAA ACGTGGATCA TAGTGTTTAC TACACATTAA CTGTTTTAGT. 7301 GGATGTAATA GTTATTATTA TAGGCTGTGG AATCAGAACA GGGTTCAAAT. 7351 GTTTTCACCG CTTGCTAGAC TGTGGCCTTG GGCATGTTAT TTAATGCCTG . 7401 GAGGCCTCAA ATGTTAACTA GGAATGGTAA GACCTACCCA GTAACTTAGC 7451 ATAAATAGTA AATTCATTCA TTTAATGTTT TCAAACAGTG CCAGACATTG 7501 TTTAATGAAC TGGGGATATA GTGGTGAACA ACACTGACAG CGTTCTTCAT. 7551 TGTATTCTCA AAACCCTCCC TATAGTAAGT AGGTCTGTGT GTGTGTGTAG 7601 GTGCATGGGG AATAAAAAAT AATAAGCAAA TAATGAACAG GGTAATTTCA 7651 AAAAGCAGAA AGAGCTATTC AACAAAACTA CCTGCCTTTT ATTAGATGAA 7701 ACTOTOAACT CTATGGTTTG TTCTCTCCTG TCAATTCTGT TAAATGCTGT. 7751 CAGCCTGTTT TCCTTATCAC CCTGGCCACG ACTTCTGTCT TTTCTGCTTG 7801 GTCCTGTAGA CTCTAACCCA AGGCTCATTC TCTGCCTGGC TATCTGCCTT. 7851 CTGTGGCTCT: TTGCCACTAC CTACATTTTC TGTGTTGCAC AGGGAAGGAC., 7901 CATTCCTGT GGACCATAAA ATTCTCTTTT TGAAAGAATT CATTCTTGAT 7951 TGGGCCACAG CACATCTTGT GAAACAGCAT TAGACATTTG CCACTGCTCA 8001 GCAGCTCTGG GGGAAAATGT TTACTGAGAA GCGTACAGTA GTTTTTTTGA 8051 CTAACCATGG TGCAACCTCC TCCCAGAGGG AAACCTATGA GTATTTCAAG 8101 GACATGTGAT GGTCTGTTTT TGTCCCCAGT ATCTGACATG ATGGGTAGTG 8151 TAGAGCAAGA GCTTACAGAT AATGGCTAAA TTAAATTTTC TTTTTGAATT. 8201 TTAATATTCA ACTITITAGG GTACCCAATC TCCATATTTA GGAAAATAAA 8251 TTACATAAAA AGTGGAGAGT TTTTATTGTG AAACTGCACC TCCATATTCC 8301 CAGTGGTGCA GGATGAGGGA GCACAGGTGT TGGTCTGGGG AAGCCAGGGC 8351 CCTCTGTGGT TCTGGAGGGT GAGGATTAAG AGGAAGCCTT AGATAGTATT 8401 TATGAGTATC TGCTGACTTC TCTCTGGGAC CCAAGATCAC TGAACTTTTG 8451 CCTATTTTGA GATCATCTTT CCAATCCAGC CACTAACAGC TGAAGGATAG . 8501 GCTTGCCCTG GAGCCATTGT AGTGGTTGGA TGAAGATAAA AGATAAAAAA 8551 CTGTGAGGGG AGGTGTCACA GAAGAAAGGG CCCATGTGGG CAGATTTTCA . 8601 TTCAATTCCT AGTCTTTATT ACAGCAATTC TCCAGTGCTG CAACCTTAGA 8651 AAAGGATTCC TACAACACAA TGTAGGTACC CATCAGCAGC AGATTGGATA

. 8701	AAGAAAATGT	GGTACATACA	CACCATGGAA	TACTATGCAG	CCATAAAAAA
8751	. GGAGCAAAAT	CATGTCCTTT	GCAGCAATAT	GAATGCAGCT	GGAAGCCAAT
8801	. AACTTAAACG	AATTATTGTA	GAAACAGAAA	AACAAATACT	GTGTTCTCAT.
8851	. TTACAGGGG	AGCTAAACCT.	TGGGTAAATG	GGGCATAAAG	ATGGGAACAA
	TAGACACTAG				
	GGAAAGCTTC				
	TAGGAGCTCA				
	GGTGTAACCC				
	. ATAAGGATTT				
	. TTTTTAAAT				
	. CCCATGTCCC				
	. TTTCAGATGG				
	. GCTTGAGTTG				
	. Gatcagacgt				
	. AGTGCGGTCC				
	. GAAGCCGTTA				
. 9501	. GCATTGTGTT	TGGCGCCCCT	GAGGAGGATG	CTGTCTTAGG	CCTCTTCCCA
9551	. CTGGACGTGT	GTGGTGGGCA	GAGATCCCGT.	TCGTCGGTCG	CACTTCCACC
9601	: CCGCTGGGGC	TCACTCAGGC	CGCGGAGCTG	CGAGGGAGAC	ATCCTCGATG
9651	. GACTCCCTCT	ACGGAGATCT	CTTTTGGTAC	CTGGACTATA	ACAAGGATGG
	. GACCTTGGAC				
	TTCAATCTCT				
	GAGACGTTGG				
	ATTTACATGT	•			
	TGACCAGCGT				
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	AGATTGCTCT				
	. TIGITCAATG				
	. AAAGATGCGC				
	. ATTTGGGAGT				
	. TCTGTTCCTG				
	. Tagtgctgag				
	. CAGTACCGAG				
	. GCCTCCTTCT				
	CCAAGTCATT				
	TAAGTATATT				
	. AGCATGTGGA				
10551	. AAAACTGTCA	GTTGAGTTCT	GTCATGTTGA	AATTTAGTAA	AACTCTTTCT
10601	. ATTAGCCATG	TGAACTTTGG	GAATATTGAA	GCATCCATTC	AGTCATGGGT.
	. CAGTTCTAGT.				
10701	CTCATCTGTT	ATATCAGAGG	CCTGGACTGT	GTACTITCTG	TGGACCAATT
10751	CAGTCCAAAA	TGTTATTTCT	GCAAAGCTTA	TCTGGATTTT	TAATTCCTAG
	AAAAAAGCAG				
	. GTGGCTCATG				
	CACTTGGGGT				
	. ATCTCTACTA				
	AGTCCCAGGA				
	TTGCAGCAAG				
	GAGACTCCAT				
	. GTTTAAAGAC				
	. TATTTGATAC				
	. TCGAATCTTT				
	. AGCTGTCTTG				
	. AGGAGGGTTC				
	. TGCACCAACC				
	. TTCCTCAAGT				
	. CCCACACGTC				
11551	. CTCAACTGAT	TAAAAAAAA	AAAAAGAAAT	GATACTTACA	गांदादादा
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11601 AAGATACAAA AGCAATAACT. TTTTATTGTG AAAATAGTCT GTTTTTGAAC 11651 AATATTIGT TTTGTTTTTT CCTGTGAAAG TTGAGAAACT AAATATACGA 11701 AGAGATAATG GTCAGACCAT, AAATAAAAAT AGAACTITGA CTCAAAATTT 11751 ACAGCAGTCT GCCCAGAAAA CCAGCCCTTT ATCTAAAATA AACAGACCAG 11801 GAAACCAGCC TGTTATGTCA GACTTATAGG AAGTCAGGTT GCTATCTCTA 11851-GAGACAATAC: ACAAAGCTAT: GCAATAACTG CTGTAACAGC CCCAAATGGT 11901 CAGAATITGA TTAATAACCG ACAGCCCCCC TAATITTTIT CTTCACTNNN 12001 ACCGCTTGCT AGAACTGTGG CCTTGGGTCA TGTTATTTAA TGCCTGGAGG . 12051 CCTCAAATGT TAACTAGGTA ATGGTAAGAC CTACCCAGTA ACTTAGCATA 12101 AATAGTAAAT TCATTCATTT AATGTTTTCA AACAGTGCCA GACATTGTTT 12151 AATGAACTGG GGATATAGTG GTGAACAACA CTGACAGCGT. TCTTCATTGT. 12201 ATTCTCAAAA CCCTCCCTAT, AGTAAGTAGG TCTGTGTGTG TGTGTAGGTG 12251 CATGGGGAAT AAAAAATAAT AAGCAAATAA TGAACAATAA AATTATTTTA . 12301 TTTAAAAAAA AAGAAATGAT ACTTACATTG TCGTGTTAAG ATACAAAAGC 12351 AATAACTTTT TATTGTGAAA ATAGTCTGTT TTTGAACAAT ATATTGTTTT 12401 GTTTTTCCT GTGAAAGTTG AGAAACTAAA TATACGAAGA GATAATGGTC 12451 AGACCATAAA TAAAAATAGA ACTTTGACTC AAAATTTACA GCAGTCTGCC 12501 CAGAAAACCA GCCCTTTATC TAAAATAAAC AGACCAGGAA ACCAGCCTGT 12551 TATGTCAGAC TTATAGGAAG TCAGGTTGCT ATCTCTAGAG ACAATACACA 12601 AAGCTATGCA ATAACTGCTG TAACAGCCCC AAATGGTCAG AATTTGATTA 12651 ATAACCGACA GCCCCCCTAA TTTTTTTCTT CACTTCCAAC TTAGGACGAA. 12701 CCAGAGAAAG CTAAATATGC ACCACCTACT AATCAAATAG GGTGCCGCGT 12751 TTCTAATGAA CCCTCCTACA GCTTCCCCAG GCCAGCAGCC CCCAATCAGG 12801 AAACGCCTGA AGCCTTCCCT TTTTCTCACT GTAAAGCTTT CCCACTCCTC 12851 TGCCTGGCTT TGAGTCTCTG TCAATACACA AGTGAGGGTG TCTGACTCCC 12901 TTGCTATAGC AAACTCGGGC CAAGTAGATT TTACTTTTCT CATTTGATTG 12951 GTCTTTTATT TCTAGAAGGA ACATACAAGA AAATTTAAAG GGGAATCCAT 13001 TCCTAATCTT TCATATTATA GTAGTCCCCT TTTATCTGCA GGGCATATTT 13051 TCCAAGACCC CCACTGAATA CCTGAAACTG TGGGTAATAT TGAACCCTAT 13101 ATATACTCTC TCTATATATA CATATATATA TATATTTTTT AATTTTTTT.
13151 TACTTTATCT TTAATTAGCT TTAGCTCTTT TTTTTTTTT TGAGATGAG
13201 TCTCACTCTG TCACCCAGGC TGAGTGCAGG GGTGCAGTCT TGGTTCACTG
13251 CAACCTCTGT CTACCGGGTT CAAGCAATTT CTTGTGCCTC AACCTCCGGA 13301 GTAGCTGGGA CTACAGGCGT GTGCCACCAC TTCCTGGCTA ATTGTTTTAA 13351 ATTTTAGTAG AAACGGGATT TCACCAAGTT GGCCAGACTG GTCTCGTACT. 13401 TCTGACCTCA AGTGATCCGC CCACCTTGGC CTCCCAAACT GCTGGGATTA 13451 CAGGCGTGAG CCACCATGCG CCCAGCCATA GACTATATAT TTTTGATCTG 13501 ATAACTGGTT CAGCTACTAA GTGACTAACA GGCAAGTAGC ATCTATAGTG 13551 TGGATATGCT GGACAAAAGG ACATTCACCT CCTGGGCAGG ATGGCACAGA 13601 ATGTTGAGAG ATTTTATCAT GCTACTCAGA ATGGTGTGCA ATTTAAAACT 13651 TATGAGTTGT TTGTTTCTGG AGTTTTCCAT TTAATAGTTC AGACCATGGA 13701 TTGACCGCAG GTAACTGAAA CTGTGGAGAG TGAAACTGTG GATAAGGGAG 13751 GACTATTGTA TTGTTAAGTC AGACTCATTA GGCAATCATA ACTCTTGATT. 13801 TGCCATCAGA AATGCTGCAG AAATATGGGT TAAAAAAAAC TGTTCAAAAA 13851 TAGGGTCAGG GATGTCCTTT AACTTGTTAC TTCCAAAATG TTAGTGAAAA 13901 CTGTGGCCCC AAAGAGTGAA AGGAACAAAT GACTAAGAGA AAATCTTGTT 13951 TTCAGGATGA CAGATTAAAA AAGAAGCAAC TTGCTGAAAC ACTGAAAATC 14001 TCTCCACTTG TAAGATAACA CAAAACTGGC TAAAACTGGT TGGAATGAAT 14051 ATGGCCAACT CAAGTCTGCA CAGAACTAAC TTGGTGATGT TACAGCCCAA 14101 ATTTCCACCA CATATTTTAT ACTAACTCCC CCCGGATTTT CACACATGAT 14151 CTGTGAGGTA GCATGAAGAG GTAACTATGC ATGCCTAAGG ACTTGGGAGA 14201 CCTCCCCATT TCCTTCCACC AATCACCCAC TAATCCCAGA ATCCGCCCCC 14251 AAACCTTTTC TAATAACTAC CTTAAAGCCA GCATAGGGAG ACAGATTTGA 14301 GCTGGACTCC TGTCTTCTTG TGGGTCACCT TGCAATAAAA AGCTTTTCTT. 14351 TTCTCAACAC CTGGTATTAT AGTATTGACT TCTAGTTCAT CGGGCAGCAA 14401 GCCCCTTTTG GTCGGTGACT ATTCTTGTTC GCTGATATTT CCATTGGCCA . 14451 AAATATAAAC CTCTTAGATG AAACTTCAGT ACGTAAATGG CGCCACAGAA .

14501 TGCTGTGACA TTTTTCTCTT. GGATTATAGC AGGITACTTT ACTGAATACC 14551 GTAGGCAGTT ATAACACACT AAGTATTTGT GTATCTAAAC ATAGAAAAGA 14601 TACAGTAAAA ATATGGTAAT, TTTTTTCAAC TTTTAGTTGA GATTTGGAGG 14651 GTATGTGCAC ATTTGTTACA AGGGTATATT, GCATGATGCT, GAGGTTTGGG 14701 GTACAATTGA ACCCTGTCAC CCAGGTAGTG AGCATAGTAC CCAATCGATA 14751 ATTITICAAC CETTGTCCAT TCCCTCCCCG TTCTTGTAGT CCCCAGTTTC 14801 TGCTTTTCCC ATCTTTATAT CCGTGTGCAC CCCATGTTTT GCTCCCATGT 14851 GTATGTGAGA ACTTGTGGTG TTTGGTTTTC TATTTCTGCG TTGATTCGCT 14901 TAGGATAATG GCCTTCAGCT GCATCCATGT TGCTGCAGAG GACGTGATTT 14951 TATTCTTCTT TATGGCTGTG TAGTATTCCA TGGTGAAAAA TATAGTACTA 15001 TAACCTTACT AAATCACTGT CATATATATG GTCTATCATT GACTGAAATG 15051 TATACAGTGC ATGATATATA TATATATATA TCTATAATGT CTTATCCATT 15101 TCGTGTATTA TGAGATTTGA TTGCTAATAT TTTATACAGG AGTTTTGCAT 15151 CTTTTCACT AGTTGACATT GCTTGTAATT TTCCTTTTT TGTGATGTCC 15201 CTGTTAGGTT TTAGAATCAA GTGTATACCC GCCTCATAAA ATGGGTTGGA 15251 AAATGTTCCC ACCCTTTCTG TTCTCTGGAA AATTGGTGTT TTTTTCTTAA 15301 AGTTTGGTAG ACATTATTGT TAAAACCATG GGGTCCTCGA TTTTTCTTCA 15351 TGGAAATGTT TTCAAATTAC ACTTTAAATT TCTTTAAAAT CTGAGTATAG 15401 GGCTATCAGA CTTTCTGCTG TCTTATGTCA GTTTTTAATA AGTTGTTTTT 15451 GTAGGCGTTT GTTATCTCAC TTTCATATTT TTGATATAAA GCTTTTCATA 15501 ATATCATTAA TGTCTATAGT, GTCTAGTAGT, TTCCATCTTT, ACTTTCTGAC 15551 ATTGGTTATT, TGCCAGTTTT AGGAGTTTAT, CAATTTTATT, AGTCTTTTCA 15601 AAGAACCATC TTTTGGCTTT, GTTAATCCTC CCAATGGTGT, GTTTTCTTTC 15651 TCATTACTTT TIGCTCTTTA TITCCTTCAA CITCTTTTT GCTTAATTTT 15701 AAAATAATTT CTTGAGATTG AGATAAGCCT CAATGATGGG TCACCGATTT 15751 CCAGTCTTTC TTCTTTTCTA ATTATGCATT TTAAACCAGA AATCTTTCTC 15801 TAAGTGTAGC TTTAGTTGCA GCTCACAAGT TTCAGATCTG TCTCTCAGTC 15851 TGGAGGTTGG AGATCTGACC ATGACCATGA AACCATCCAG TCACAATGTG 15901 GCATTATTIT TTTAATTITT TITTTITTT TTGAGATAGA GTTTCACTCT. 15951 TATTGCCTAG GCTGGTGTGC AATGGTGCGA TCTCGGCTCA CAGCAACCTC 16001 CACCTCCCAG GTTCAAGCGA TTCTTTTGCC TCAGCCTCCC AAGTAGCTGG 16051 GATTACAGGC ATGCGCCACC ATGCCCCAACT AATTTTGTAT. TTTTAGTAGA 16101 GATGGGGGTT CTCCATGTTG GTCAGGTTGG TCTTGAACTC CCGACCTCAG 16151 GTGATCCGCC CACCTCAGCC TCCCAAAGTG CTGGGATTAT AGGAATGAGC 16201 CACTGTGCCC GGCCCAACTT GGCATTATTT ACCCAGAAGA GCATGACCAT 16251 GAGAACAGTA GAATTTGTAA GCTTTGAGTG GGTGACTATG AGTGTCATAA 16301 TAGGTAGATA GGTTATATTT TGGGTGGTGG TAGGAGAGGG CTTACAGTTT 16351 GCTATGACAG CTTTTTATAT GGATCATCCT TAGTAAAAGA TTATTTAATT. 16401 TITGAAATCA AAGGGGAAAA CACTAGTTTA GGCTTTCTTC TTTCTTTCTT. 16451 TTTTAGAGAC AGGGTCTTGC TCTGTCACCA GGTTAGAATG CAGTGGTGCA 16501 ATATTGCTCA CTGTAACCTC AAATTCCTGG GCTCAAGTGA TCCTCCTACC 16551 TCAGCCTCCA AGTAGCTAGT ATTTACAGGC ATGCACCAAC ACATCTGGCT 16601 AATTTTAAAA ATTTTTTATG GAGATGAGGT CTCACTATGT TGTCCAGTCT 16651 GGTCTTGAAT CCTGACCTCA AGTGATCCTC CCCCATCAGC CTCCCAAAGT 16701 GCTGCAATAT TTTAAATCCT GTGGTAGGTC AAGTGGTTGT CTTCTATCTT 16751 GGGGTTTATA AAGTACATGT CAAGAAATTT AGGGTATGGT TAGATTAGCT 16801 TTAAAAATGT CATGTTTTAT AAAAATCAAT GCATCATTTT TCTGATTGAA 16851 AATTTAACAC AAGACTCAGA ATCTTTTTGC AGTAGTGGAA TTACTTTTAT 16901 TATAGATCTT TGCGATAATG AATGATGATA CATCTGGCCA AAAATAGGTA 16951 CTATAGTCTT TTAGGAAAAC AGCTAATCTG CTTGAAATAT GTGTAGAAAT. 17001 AATTTAGTGC ATCAGCCCAT ATTGGCAATA ACTTCTCTCT AATTTTTTT 17051 TATAGAAAAT TTTTACTACT GGAGATGTCA ACAAAGATGG GAAGCTGGAT 17101 TITGAAGAAT TTATGAAGTA CCTTAAAGAC CATGAGAAGA AAATGAAATT 17151 GGCATTTAAG AGTTTAGACA AAAATAATGA TGGTGTGTCT TTCTTTTGTA 17201 TTTATCACCA GCTATGAAGA AGCATTTATC ATGCTTTCAA GAGTCTAAAA 17251 GGATGCTTAT TTAATCTCTC TGGTTTTAGA TGATAATTAT TATTTGTGTT 17301 AATACTTTTT TITAGTAATG TGATTTTTAT GTAGAGTTTA TATTATTTAG 17351 TGAAGAAAAC TTATAGATAG CTTTTCTTTT TCATTACTTT GAAATGTAAT

	17401	GAATTACAT.T	TCTGAATTAA	AAACTGTGGG	CAGGGCCTGT	TGTAAATGTT .
		AACTATGGAA				
						TTTTATTTGT
		ATAGAAGAAT.				
		TCTTGCATCT				
_		TGATCCTGGA				
		TTCTGGTTAA				
		TCTTAATCTG				
		TATGAAGAAA				
		AAGTTGAGCC				
		CAGGCATCAC				
		AAAAGCCACT		· ·		
		TTCTAATTGG				
		AACAGGAAGA				
		CTACTTGTGA				
	18151	AACAGGTTAA	ACAAATAGAT	TGAGAGGAAA	TGTGGTTCAT.	GTCTGAGATC .
١	18201	AGCAAACTTT	TTTGTCCAGA	AGTCCAGATA	ATAAATATTT	TAGCTTTGTG
	18251	GGTCATGTGG	TCTCAGTTGT.	AGCTACTTGT	CTCTGCTGCT.	GTACCTCAAA .
	18301	AGCAGCCATG	GATAATATGT	AAATGAATGG	GGATGACTGA	TTTCCAATAA ,
	18351	AAACTTTATT	TACAAAGATA	GTTAATACAC	CTTATTTGGC	TTGAGGGTTA
		TAGTTTGCCA				
		AAGTTCCTTC				
		CACATCTGTG				
		TACTATTGGA				
		TCTAGCCTTA				
		CAAACTTTCA				
		TCAGATTGTC				
		ACCTTAAGAT.				
		AGTAGTGTAC				
		GGCAATAATT				
		CAATGTTTCC				
		TATTGGTTCA				
		AGTTGATCCT.				
		ATAAAATTTA				
		CCAGGCATTC				
		CATGTACATT.				
		CAGCTCTCAT				,
	19251	GCCAGTTTTT	GCATTTTTGT	ATTTTGTTG	GTAATTTCCT	TTTTAAAATG .
	19301	TTCCCCAAAG	GTAGTGCTGA	AGTGCTGTCT.	AGTGTTCCTA	AGTGCAAGAA .
		AGCCATAGCA				
	19401	CCAAATTCAA	TGTTAGTGAA	TCAACAGCAC	ACATTAAATG	AGGTGCCTTC .
	19451	AAACAGAAAC	AĞACATAAGA	CATGGTTATG	TATTAATCAG	TTGATGAAAG
	19501	TGTTGTAATC	AGAGGCTCAC	AGGAACCTAA	CCCTGTTTTT	CCTGTAGGAA .
		CAATGGTTTG				
		ATGGAAGATG				
		GTGCATTTCT				
		CTAACAGATG				
		GCTCCTTCCC				
		CAGGGTCCTT				
		TGGTCTTCCT				
		CAGACCCTCT				
		CTTAGGATTC				
		TTACATTTAT				
		ATTGTTCTCC				
		ATTITCTGTC				
		CAGATTTTTA				
		ACCCAGGCTG				
	ZUZ 3 I	TCCCAGCTTC	AAGCAATTT	CCICITIAG	CCTCCCAAGT	AGCTGGGATT.
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20301 ATGGGCACCT GCCACCATGC CTGGCTGATT TTTCTATTTT TAGTAGAGAC 20351 GGGGTTTCAC CATGTTGGCC ACACTGCTCT CTAACTGCTG ACCTCAGGTG 20401 AACCACCCGC CTCAGCCTCC AAAAGTGCTG GGATTGCAGG TGTGAGTCAC 20451 TGTGCCTGGC CTTTTACTGC CAGATTTTTA AAAGAATAGT CTGTGCTTTA 20501 GCTCTATTTC CTCATTTACT, ACTTCTCTT AACTCAGTCA TATATGATGT 20551 TTTGCATAGT AAATGTCTAG TAATTTATTA AAAATGTAGA AATAGGTACT 20601 TTTAAAATGA ATAGATCCTA CTTTAATTGA ATTTATCTTG GAGTTAGAAT 20651 ATCTTGATTT GGATTTTAGT. TCTGCTACTT CTTAATTACA TTACTTGGTA 20701 AGGCCACTTG TGAAGTCAGT CTCTTTGGAG GAATATTATT TATCTATAAG 20751 GCTGTTACAA TTACTGAATT, TTAAAAAATG TGTATTTATT, TTTTAATGTA 20801 TTTGTTACAT TTTTAGTATT GATGTTGGGA TAGGCATTTA AGCAAGTCTA 20851 TAACTCACCT ACATGCATAA TTTTGCCTTA ATCAGTTTAA AGCTTTCTCT. 20901 TAAATGAGAG ATTTGAAATT CATAATTTCT GTGGTTCTTA TCAGTTCTGA 20951 GTTTTATTTT TTGCCCTTTT TATTTTTTA AAGGAAAAAT TGAGGCTTCA 21001 GAAATTGTCC AGTCTCTCCA GACACTGGGT, CTGACTATTT, CTGAACAACA 21051 AGCAGAGTTG ATTCTTCAAA GGTAAGCTCT TCATGTTGGT CAACAATTGA 21101 CTTTCACTIT. AATATCCTGC ATTAGAACTC TGTGTTTGTA AGTGTGGCTT.
21151 TAAAACACCT CCCTAGTCTT CATTATGTAT. ATCCAAGATC TTTTTGTCTT 21201 TITTCCTCCC ATTCATTTIG TATGTGTACA TTTATCTAAA GTGTAAGAAT . 21251 GGGAAGTGTA AGCTCAGACT GGACTCTTTC TTTCAAGGCC TCAAAGGATA 21301 GTGGAATGGC AGGAAGTAAG GTTTTAACTC CATAGATGAG GAGCTGAAGA 21351 GTTTTGGTGT TGCTTTTTCT CCATTTGATT TCTAATGTGA CAGTAAAACT 21401 CATTGATTCA AACTAAGAAG ACTAGCAGAT TCATCACATT ATTTAACCTA 21451 GATGTGACTG GAAAAAAGGG AAATTACTAA GCTCTCCAAG CTAACAAAGA 21501 AATACCTGTT TAAACTTTCA GAAAACAGAA ATGCAAATTT GAACCTTATT 21551 GTCTGGGGCA ATCAGTTTGA CTATTTAAGT CAGACTTTTA TACTCTTAAT 21601 GTTTTGTTTC ATGGGATAGA GCAGTAATCT CTGCAGCCCA GGTGCTCTCA 21651 AATACTCTGT TGCTATAAAC ACAGGGCAGG AACTGATTTT TTATGATAAC 21701 GTAAAACAGA AAAGGACAAT TATATTGTAT TAATATTGTT GTGAATATTT. 21751 TCAGTCCTCA CATTGTCTAA AAATCTTTCT AAATGGCTTT GTTATTGAAT. 21801 TTATCTCATT TTATATCTGT GCCAACAGCA TTTTCATCCT TTCTCTTCAT 21851 AATTTCTTTT ACAAACAGCT GCTCAAGAGG AAGGCTCAAA GTCTCAAGGC 21901 TGAGCACGTA ATGACTTTTG TTAGTACTAG ATGAGAAGGG CTTTCCTGAG 21951 GAAATGAAAA CCTAAAACAT GAAAAGAAGA TAAACAGAAT TTGGACAGTG 22001 AGATATAGAG CATATAATAT, TCTGCTTCTA AAGTAATATT, CTTCTAGGAA 22051 AGTGAGGGCG TITTCCCTGGC TGTTAGGCCA GAAATCATAT TCCTATATTT 22101 TCTTTGATAG CTTTAGGAAT AATGCAAATT CTAAGCCCAA GCTTCAGAAT 22151 AGACTAAGAA GTATTAGCTT AGCTGCCATG ACAAAATACC ATAGGCTGGA 22201 TGCATTAAAC AATGGAAATT TAGTTTTTCA CAGGTCTGGG AGCTGGGAAG 22251 TTTAAGATGA GAGTGCCAGC ATGGTTGGGT TGTAGTGAGG GCTCTCTTTC 22301 TGGCTTGCAG ATAGACCCCT. TCTCACTGTA TTGTCATATG GCAGAGAGAG 22351 AGAGAGAGA AGAGAGAGAG AGAGAGAGGG GATCTTTCTC TTGCTTTCTA 22401 TTATAAGGCC ATAGTCCTGT TGGATCAGGG TTCCATTCTT ATGACTTTAT 22451 TTGACTTTAC CCCCCTAAGA TGCTATCTCC AGATATAATC ACACGGTGGG 22501 TTAGGGCCTC AACATTTGGA TTTGGGAGGG ACACAGCTCA GTCCATAGCA 22551 AAGGATAATG CAGAGGGTTG GATATTTAAA AGTAGCTACA CAATTTTTAA 22601 TATAAATATT TTATGGTAAC TTTTTTTTT TTTTGAGATG GAGTCTAGCT 22651 CTGTTGCCCA GGCTGGAGCG CAATGGTGCG ATCTCAGCTC ACTGCAACCT 22701 CCGCCTCCCA GGTTCAAGCA ATTCTCCTGC CTCAGCCTCC TGAGTAGTTG 22751 GGACTATAGG CACGCGCCAC CACGCCTGGC TATTTTTTT TTATTTTTAC 22801 TAGAGACGGG TTTGCACCAT ATTGGTCAGG CTTGTCTCGA ACTCCTGACA 22851 TCAGGTGATC CACCCATCTT. GGCCTCCCAA AGTGCTGGGA\TTACAGAAGT 22901 GAGCCACCGC GCCTAGCCAG CAGCTTTACT GAGATGTAAT TCACATGCCA 22951 TAAATTCACT TITICTAAAGT ATACAATTCA GTGACTTAAA ACATTTATTT 23001 ATTTTTAAAT TGACAGAATT ACATGTATTT ATCATGTACA ACATGATGTT 23051 TTGAAGTATA TGTACATTGT GGAGTGACTA AGTCTAGCTA ATTAACATGA 23101 TACATCTCAT ACTTAATGAT TTCTGTGGTG AGAACACTTT ACATCCATTC 23151 TCTTAGTATT TTTCAAGAAT ATAATATATT ATTATTAATT GTAGTCTTCA

23201 TGTTGTATAG TGGAGCTCTT GAACTTATTC CTCATGTCAA GCTGAAATTG 23251 TGTGTCCTTT AACACAAACC ATACCCGACT, CCCAAAGTAT, TCTGCTCTCT 23301 GCTTCTATGA GATTAACTTT. TTCTGATTCC ACATGAGTGA GATCATGCAG 23351 TATTTATTTG TCTTTACCTG GCTTATTTCA TTCATATTGT. TACAGATAAC 23401 AGGATTTCCT TCTTTTTTA ATGGCCGAAT AGTTTTCTAT TGTATATGTA 23451 TAGCACATTT TCTCTCTTCA TGCATTGGTG GACACTTAGG TTGATTCCGT 23501 ATCTTGGCTA TCGTGAATAG TGCTATAATG AACATGGGAA TGCACATGGC 23551 TCTTTGACAT. ATTGATTTCA TTTTATATAT, GTGTATATAT, ATATGTATAC 23601 ACACACATAC ATACAGTGGT GGGATTGCAG GATCATATGG TAGTTCTATA 23651 TITAATTITT AAAGGAACTC CATACTGCTT TCCATAATGG CTGTATTAGT 23701 TTAACTCCTC ACCAACAGGG TGCAAAAGTT CCCTTTTCTC TACATACTTG 23751 CCAACACTTG TTATCTTTTG TCTCTTTGGT AATAGTCATT CTAAGTGTAG 23801 TATGAGGTGA TATCTCATTG TGGCTTTTAT TTGCATTTCT GTGGTAATTA 23851 GTGATATCGA GCTTTTTTT TTTTTGTAC TTTGGCCATT TGTATGTCTT 23901 TGAAAAATGT. CTATTGGGGT. TTTTTGGTTG TTTATTTGAG GTTTTNNNNN 24251 NNNNNNCCG GGGTTCCCGT CATTCTCCCT GCCTCAGCCT CCCCGAAGTA 24301 GCTGGGACTA CCAGGGCACC CGCCCACCAC GGCCCGGGCT AATTTTTTGT 24351 ATGTTGAGTA GAGACGGGGT TTCACTGTGT TAGCCAGGAT GGTCTTGATC 24401 TCCTGGCCTC GTGATCTGCC CGCCTCGGCC TCCCAGAGTG CTAGGATTAC 24451 AGGCGTGAGC CACCGCGCCT GGCCTGATTT CTAGTTTTTT ATTATTGTGG 24501 TCGGAAAAGA AACTTGATAT, GATTTCATTC TGCTTAAATT, TGTTAAGACT 24551 TGTTTTGTGG CCTAACATAT GATATCCCCT GGTGCATGTT CCATGTGCAG 24601 TTGAGAAGAA TGTGTATTCT CTTGCCATTA GGTGAAATGT TTTATGTCTG 24651 ATCTGTCCAT. TTGTTCTAGA GTATAGTTTA AGTCTGATGT. TTCTTACTGA 24701 TTTTCTGTTG AGATGATTTG TCTATTGCTG AAGGTAGGGT GTTGAAGTCC 24751 CCTACTATTG CTGTATTGCA GTCTCTCTCT CCTTTCAGAC GTATTAATGG 24801 TITTATTIT ATTITATTIG TIGTIGTIGT TGTTGTIGTT GTTGTTTTTG 24851 AGACGGAGTC TCACTCTGTC ACCAGGCTGG AGTGCAGTGG CAGGGTCTCG 24901 GCTCACTGCA GCCCCCGTCT CACGGTTCAA GCGATTCTCC TGCCTCAGCC 24951 TCCCGAGTCG CTGGGACTAC AGGCGCATGC CACCACGCCC AGCTAATTTT 25001 TGTATTTTTA GTAAAGACGG GGTTTCACCA TGTTGGCCAG GATGGTCTTG 25051 ATCTCTTGAC TTCATGATCC ACCCGCCTTG GCCTCCCAAA GTGCTGGGAT. 25101 TACAGGTGTG AGCCACCACC CCTGGCCAAT GTTTGGTATT TATCTTTAGG 25151 TGCTCTGATG TTGGGTTCAT ATATATTTAT AAAAAACAAT AGCTACATAA 25201 CTTATTAAGG GATATGCAAT, ATAAAATATA TAAATTGTGA CACTGAAAAT. 25251 TTAAAATGGG AGGAGTGGAG TAAAAGTACC TTCATATAAC TTACTATTAT. 25301 ATCCTCTTAT. TGAATTGACC CTTTTATCAT. TATATAGGAA CTTTGTTTCT 25351 CCTTTACAAC TTCTGACTTA AAGTTTGTTT TATATGATAT AAGTAAAGTT 25401 ACTOCTGCTC TCCTTTGGTT, TCTGTTTCCA TGGAATATCT, TTTTCCATTC 25451 CTTCACCATC AGTCTGTGTG TATTTTTACA GATGAAATGA GTCTGTCATG 25501 GGCAGCATAT, AGTTGGATCT, AGTTTTTTTA ATCCACTCAG ACACTGTGTT. 25551 TTTTGATTGG ATAATTTAAT CCATTCATGT TCAAGGTAAT TATTGATAAG 25601 TAAGGACTTT GTACTACCAT TITTGCTTATT GTTTCATGGT TCTTTTATAG 25651 ATCCTTTATT CTTTTCTTCC TCTCTTGCTG TCTTTTTTT GTGGTTAAGT. 25701 GATTITCTCT AGTGGTATGT TTTGATTTCT TGCTTTTAT TTTTTGTGTA . 25751 TCTCCTATTG GTTTTTGGTT TGTGGTTACC AAGAGGTTAC AAAAAACATC 25801 TTAAGAGTTA TAATAGTTTA TTTTAACTTG ATAACTTAAT TTTTATTGCA 25851 AAAACCCCCC AAAACAAAAA AATCTACACT TTTACTTAAT CCCCTGAAAT 25901 TTTGAATTTT TGATGTCACA GTTTACCTCT TTTCATATTG TGTATCCCTT 25951 AAATTATTGT AGCTATTATT ACTTTTAATA GTTTTCTCTT TCCTACTACA 26001 GATGTAAGTG ATTTGCATAC CATCATTACA GTATTATTTT GAATTTACCT 26051 GTGTACTITT TITTATCAGC CAGTTTTATA CTTTCAGATG TTTTTGTGTT

26101 ACTCATTAGC ATCTTTTCT TTCAGCTTGA GGAGCTCCTT TTACGTTTCT 26151 TATAAAATAG GTGCGGTCAT GATTATCTCC CTCAGCTATT GTTTGTCTGG 26201 GAAAGTATCT CTCCTTCATT TCTGAAGGAC ACTTTGCTGG GTACATTACC 26251 CTTGGTTGGT ATTTTTCTCC TTGAACGCTT TAAATATATC ATCCCTTTCT 26301 CTCCTGACCT GTTAGGTCTC TGCTGACCAG TCTGTTTCCA ACCATATTGG
26351 GACTGTCTTA TATGTTATTT GCTTCTTATC TTTTGCTGTT TTCAGGATCC 26401 TCTCATTGTC TTTGATTTTT. GATAGTTTGA TTGTAATATG TCTTGGGGTA 26451 GTCTTGTTTG GATTGAATCT GATTAGAGAC CTTGGACTTT TCCTGCATGT. 26501 AGATATITAC CTCTTTCTCC AGGTTTGGAA AATTTTCTGT. TACTGTTTCT. 26551 TTAATTAAGC TTTTTACCCC TTTTATCTTC CTTTTCTCCT TCTTCAACTC 26601 CTGTGACTCA AAACTTTGCT CTTTTGATGC TGTTCCATAA ATCTTGTAAG 26651 CTTTCTTCAT, TCATTTTCAT, TCTTTTTTCT, CCTCTGTGTA TTTTCAAATA 26701 ACCTGTCTTT GAGTTCATAG TTTCTTTCTT CTTCTTGATC ACTTCTGCAG 26751 TTGATGCTCC CATATTGCAT TITAATTTTG TTCATTGTAT TTTTCAGCCC 26801 CATGATTICT GITTGATTIT TICTITIATT ATTICATCIC TITATTACCT
26851 TICTCTTIGT GGTCACTCGT TATTITCCTA ATTICATIGA ATTIGITICIT
26901 TGTATTITCT TGAAGTTIGC TGAGCTTICT TIGAATTCTA TGTCAGTTCA
26951 TACATCTCTG TTTCTTTAGG GATGGTCGCT GGTACTTTAT TTTGTTTCTT 27001 TAGTGGTGTC ATTTGTTCCT GATTGTTGTT GATGTTTGTG GCCTTGTGTT. 27051 TACATCTGTG CATTTGAAGA AGTAGGCACT TATTTCAGTC TTTGCAGACT. 27101 GGCTTTGTCT, GAGAATGCCC TTCAACAGTC AGCCTGTCTA GAGATTCTTT 27151 AATATTTAAT TAAATATCTT TAATATTTTG AAGAACTTCC AAATTGTTTC 27201 TAAAGTGGCT, GCACCATTTT, ATAATCCCAG CAGCAATGAA TGAAGGTTTC 27251 AGTTTCTCCA TAGCTATATG AATACTCATT ACTGTCTGTC TTTTCATTTT. 27301 TIGATITITA TITTITITITI GAGAAAGGGT. CTIGCTCTGT. CATCCCATCT. 27351 GGAGTGCAAT GGCACAATCA TGGCTCATTG CAGCCTCAAC TTCCCTGGCT 27401 CAATTGATCC TCTCACCTCC TGAGTACCTG GGACTACAGG CATTGTACCA 27451 CAATGCCTGG CTAATTTTTA TATTTTTTGT AGAGATGTGG TTTTGCCATG . 27501 TTGCCTGGTG TATTAGTCCA TTCTCATGCT GCTATAAAGA ACTGCCTGAG . 27551 ACTGGGTAAT TTATAAAGGA AAGAGGTTTA ATTGACTCAC TTTTGCTTGG . 27601 CTGAGGAGCC CTCAGGAAAC TTACAATCAT GGTGGAAGGG GAAGCAAACA . 27651 CGTCCTTCTT CACATGATGG CAGGAAGAGC AGTGCCTAGC AAAGAGGGAA 27701 AAAAACCCTT ATAAAATAAT CAGATCTCAT GAGAAGTTAC TCACTATCAT. 27751 GAGAACATCA GAATGAGGGT. AGCCTCCTCC ATGATTCAAT. TACCTCCCAC 27801 TGGGTCCCTC ACGTGACATG TGGGGATTAT TGGAACTATA ATTCAAAATG . 27851 AGATTTGGGT GAGGACACAG CCAAACCATA TCATTTTTGC CCTGGTCCCT. 27901 CCCAAATCCC ATGTTCTCAC ATTGCAAAAC ACAATAATGC CTTTCCAGCA 27951 GTCCCCCAGC GTCTTAACTC ATTCCAGCGT TAACCTAAAA GTCCAAGGTT. 28001 TCATCAGAGA CAAGGCAAGT CCCTTCTGCC TATAAGCCTG TAAAATCAAA 28051 AGCAAGGTAG TTATTATACT TCCTAGATAC AATGAGGGTA CAGGCATTGA 28101 TTAAATATAC TTGTTCCAAA TGGGAGAAAT TGGCCAAAAT GAAGGGGCTA 28151 CAGGCCCCAA GTAAGTCCGA AATCTAGTGG AATAGTCAAA TCTTAAAGCT. 28201 CCAAAATGAT CTCCTTTGAC TCCACATCAC ACATCCAGCT CATGCTAATG 28251 CAAGAAGTGG GCTCCCATGG CCTTGGGCAT. CTGCACTCCT. GTGGCTTTTC 28301 AGGGTACAGA CCCCCTTCTG GCTCTTTTCA CAGGCTGGCG TTGAGTGTCT 28351 GTGGCTTTTC CAGGTGCATG GTGCAAGCTG TCGGTGGATC TACTATTCTG 28401 GGTACTGGAG GATGGTGGCC CTCTTTTCAC AGCTCCACTA GGCAGTGCTC 28451 CAGTGGGGAC TCTGTGTGAA GGCTCCAACC CCACATTTCC CTTCTGCACT 28501 GCCCTAGCGG AGGTTCTCCT CAAGGGCTCC ACCCCTGCAG CAAACTTCTG 28551 TCTGGACATC CAGGCATTTC CATACATCCT. CTGAAATCTA GGCAGAGGAT 28601 CTCAAACCTT AATTCTTATC TTCTGTGTAC CCGCAGACTC AACACCTTGT 28651 GGAAGCTGCC AGGGCTTGGG GCTTGCACCT TCTGAAGCCA TGGCCTGAGC 28701 TGTACCTTGG CTCCTTTTAG CCATGGCTGG GATGCAGGGC ACCAAGTCCT 28751 GAGACTGCAC AAAGCAGCAA GGCCCTGGGC CTGGCCCAGG AAACCATTTT 28801 TTCCTCCTGG GCCTCTGGGC CTATGATGGG AGGGCCCTTC CTGAAGACCT 28851 CTGAAGTGCC CTGGAGGCAT TTTCCCCCATT GTCTTAGTGA TTAACATTTC 28901 ACTCCTTGTT TCTTATGCAG ATTTCTGCAG CTGGCTTGAA TTTTTTCCTC 28951 AGAAAATAGA TITTTCTTTT CTGTCACATC ATCAGGGTGC AAATTTGACA

29001 AACTTITGTC CTCTGCTTCC TGTGGAATGC TTTGCCACTT AGAAATTTCT 29051 TCTGCCTGAT. ACCCCAAATC ATCTCTCTTA GGTTCAAAGT. TCCACAGATC 29101 TCTAGGGCAG GGGCAAAAAG CCACCAGTCT CTTTGCTATA GCATAACAAG 29151 AGTCATCTTT GCTCCAGTTC CCAACAAGTT CCTCATCTCC ATCTGAGATC 29201 ATCTCAGCCT GGACTTCATT GCCCATATTA CTGTCAGCAT TTTGGTCAAA 29251 GCAATTCAAC AAGTCTCTGG GAACTTACAA ACTTTCCCAC CTCTTTTGT 29301 CTTCTGAGCT CTCCAAATTT TTAAGAAGTT CCAAACTTTC CCAGTCTTCT 29351 TCTGAACCTT CCTAACTGTT CCAACCTCTG CCTGTTACCC AGTTCCAAAG 29401 TCAGTTCCAT. ATTTTTGGGT ATCCTTATAG TAGCACCCAA CTCCTAGTAC 29451 CAATITACTG TATTAGTTCA TTCTCACGCT GCTATAAAGA ACCACCTGAG 29501 AATGGGTATT TTATAAAGGA AAGAGGTTTA ATTGACTCAC AGTTTCGCGT 29551 GGCTGGGGAG GCCTCAGATA ACTTACAGCC ATAGCAGAAA GGGAAGCAAA 29601 CATGTCCTTC ACATGGTGGC AGGAAGAAGA AGTGCTGAGC AAAGAGGGAA 29651 AAGCCCTATA AAACCATCAT ATCTCGTGAG AACTCACTCA CTATCATGAG 29701 AACAGCAGCA TGGGGTTGAC CACCCCCCAT AATTCAATTA CCTCCCACCA 29751 GCTGTCTCCC GTGACACATG GAAATTATGG GAACTACAAC TCAAGATGAG 29801 ATTTGGGTGG GGACACAGCC AAACCATATC ATCTAGGCTG GTATCGAAAT 29851 CCTGGGCTCA AGCAATCCAC CCACCTTGCC CTACCAAAGT GCTGGGATTA 29901 CAGGCATGAG CCACCATATC TGAACTGTCT TTTGATTTCT TTTGATTTTA 29951 ACCATCCATT GTTTCTGCTT CTCTAGATAA CCCTGACTAA TATATAATTG 30001 GTATGAAGTG ATATCTCATG GCTTTGATTT ATATTTCTTT CATGGCTAGT 30051 GACTITITIT GTACTITIGG GATATIGITA TTATTATTAT TATTATTACT 30101 AGTGTTTATA CITCTTCAGT AAAAGTGTTA GAAACAATTT TTAAAGGCAG 30151 AATGTGACCA GAGTTTCCTG TAGTTATATA ACCATCATGG ACCTTCCCTC 30201 AAGTGCTAAG CCATTAGTGT TACTCATGTC ACTCCAAATG TCAGCTTGTT 30251 TTCTTCCATT TCACTGTCTC TTTGTGTCCC AAACTTGAAT TCATGGGAAA 30301 AACATCTGAA TGGTGCTTAA TATGGTTTGG ATATTTGTCC CCTCCAAATC 30351 TCATGTTGAA ATATGACCTC CAGTGTTGGA AGTAGGGACT ACTTGGGTCA 30401 CGAGAGTGGA TCCTTCATTA ATGGCTTGGT AATAAGTGAA CTCTATTAGT. 30451 TCATGAAAGC TGGTTGTTGA TAAGAGCCTG GCATCTCATT TCTCTTGTCC 30501 TTCTCTCACC ATCTGACACA CTTGCTCACC TTTTTTCTTC AGCCATGAGT. 30551 AAAAGCTTCC TGAGGTCTCA CCAGAAACTG AGCAGATGTT GGTGCCATGC 30601 TTGTACAGTC TGTAGAACTG TGAGCCAAAT AAGCCTCTTT, TCTTTATAAA 30651 TTACCGAGTC TCAGGTGTTC GTTTAAAACA ACACAAAACA GACTAACACA 30701 GTGTTGATTG AAACAGCTGT GACTGGGTCA TCAGGGTGTA AGAGAGGAGT. 30751 CACTGAGTTG AAATATAGCC TCCTACTTAC ACCTGTTCAG TAGAAGCTGT. 30801 AGATATGAAG TAGCTGAAGC AGGCATTCCC TCTGAAACAT GTGTTTCACA 30851 TATGTCATAA TTATCTTCTG CTCTCATTTT TCTTTTAGGC TTTTGTCTCC 30901 ATCTCATTTC CCCTGTTTAC TCTCATTTTC ATATCTTTAC ATTTCTTTCT 30951 CCAGAATTGT TCAGAAGCTT GGAACCCTTC ACTCCAGTTA TTCTTTGACT 31001 ATGCAATTTG TITCTGTGCT TCATGGCACT TATGGTTTGT AATCCTTGAC 31051 TTGTTTGTAT AGCTCAGTGG TTAGGAGTAC AGTTTGGAGT TAGAATGCCT 31101 GGGTTGAAAC TCTTAATTCT ACTCTACTTA CTAGTCTTGT GACTATAACA 31151 AAATTOTTAG CCTCTCTTG TCTGTAAAAT, GGAGAGTATA GTAAATACAT. 31201 GGGCTTGTTT. TAAGGATTAA ATGAGTTAAC ATGTGAAATA CTTAGAACAA 31251 TGCCTGGCAA ATGCTCAATG AATATTGAGT ATTGCTTGCT TTTGTTTAGT. 31301 GCCATGCCTG TTGTTCCCAC TGAGGGCACA GACCATGTGT, ATCTGGTTAA 31351 CAGTTCTATG TCCACCACGT TGCAATAATG GACTCTCAGA AAATATTGAA 31401 GAATATGTTA AAGAATGAGT AGAATTATGC TACTGAAAAG GGTGAGTGGA 31451 AGGTAGGTAG GGGAAAGGAC ATATACAGCC CTGGAGGCAG CATATATGGG 31501 GAATGGGTCA CACAGTGTTT CTTGGTACTC TCTAGACCAT AGTGGGCCAC 31551 CTCTTAGCTA GTGGCCTATG GATTATTTCA GCAGTCTGTT GGAAACATCC 31601 ATGAATATGA TAATAATGAC CCATTTGTGG GTTCTAAGAA AAAGGACAAC 31651 TACAATACTA GACAATAATA GTATGTAAGT TAGGAGGGAA GGGGATGATT 31701 TGTATTAAAC TGTTCTAAAA TTCTTACCTT ATTTAGGATG ATGGGGTCAG 31751 ACATTAACTT TAGACTTTGT TATATATATG TGGTAAAATT TCAAGGTAAA 31801 CCATTGAAAC TGTAGTAGTT. GAGTATATAA CTTCCAAATC AGGGGGGAAA 31851 GAAATGGAAT AAGAAAATAA ATACATAAAC ATAAGATTGA AACAATCCAA

31901 TGAAGAGTAG AGAGAAGAGG GAAAAACATA GAAAGAATGA GATAATTAGA 31951 AAGCAATAGG TAAGATGTGA GAAATAAATT CAAGTACAGT AAAACTCCAC 32001 TAAAATGTGC CCTGCAGTAA TGTTGGGGCA TGATTTCCCT, TCATCCCCAT, 32051 TCTCAAATGG GGCAGCCTAA ATAGCGTTCT TATCCTGTTT CCCTGGGGGT. 32101 TTGAGGTGGG TGACGAGTAA GTTAGAAGAT AATCACCTTC TGATCAGTTA
32151 GGACTTTCTC AGTTTAGTCT TCAATTAATA AAAATTAATG TAAATTTCAT 32201 CAGAAGGCAG AGATTGTCAG ATGAAAGAAC AAGCAAAATA AAAGTCTTAC 32251 TGAAAAAAG CTGGGGTAGC TATGTTAATA TCAACTGTTA ATTATTATTA 32301 ATAATCTATT AATAATAGAT TATATAGTAA AAACATTAAT AAAAATAGAG 32351 TGTCACTACA TITTAAAATT CAGTATGAGG ATATACAATT TTTAAGCTGG 32401 TTGATAAAAT TCTGGGGATT AATTGGCAAA TCCATCATAG TGGTGAGAGA 32451 TTTTAACACA ATTCTTCCTG TATTTGATAG GTCAAGCAGA GAAAAACTTT 32501 AGTGAAGACA AAAACTTCTA AATACATAAG CTTGATTTAA TGGGCATGTA 32551 ATAGGACCTA GCATCAAAAA ATTAGAAAAA ATATTTTTC TTAGGTATTT 32601 ATGGAACATG TATAAAAATT GATTTCGTAG TAGGCCATAA AGCCAGGTTC 32651 AACACATTTC AAAGAACTGG TATCACAAGA ACTGCTTTCT, CTGACCACTA 32701 TGCATTAAAA TAGAAGTTAA TTACAGACAT AAATTATAAA AATGCCAATA 32751 TTTTAAAGTG TGATATACAC TTCTCAACTT ATGGGTCAAA GGAAATCGTA 32801 AGTGGAAATT. CAAGGACACG TTGACTTGAA AACATTAAAA::CTTATGGAAT. 32851 ATTTCTAAGA TGGAACTTGT ATGAATTTTA TAGTCTGAAA GCTTTTATTA 32901 GAAAAGAATT, AAGTCTGAAA ATTAATGTGC TAAGTTAGGG GAGAGAAAAT 32951 GGAATAATCT CGAAGAAGGT AGGAGGAAGG AGATAATAAA GAATATATAG 33001 CAAAGATGCA GTAACAGGAT CAACAAAGCC AGAAACTGTT GGAAAAGACA 33101 TCATGTTCAG TTATAAATAG GCACATAAGG ACTTTTAAAA AACTAATAAA 33151 ATAATATGAA TCATTAATGC CAATAAATTT GAAAACAGAC AAAGTAGGTG 33201 AATTTCTAGA AAAATATAAC TTACTGGGAC TGAATGAAGA AGCAACAGCT 33251 TATAGTACCT AAGCAATTGA AGAGATTGGG TCAGTAATTT AAAATTTTCT 33301 CATAAACAAA ACGTTAGCCC CAGATGGTTC TTGCAAATGA TTAAAGAACA 33351 GATGTACAAA CATTTCCAGA GTGTAGAAGT ACACTGTCCT ATCCTTTCTA 33401 GGAGATCATT ATAACACCAA AAGCAGACAG TATATGAAAC AGGGAAATTA 33451 GAGGCCAAGA TACCTATGAC TTATATGTAA AAATTTAAAG AAAATATTAG 33501 CAAACTGAAT CAGCCATTTT AAAAAATATA CCACAATCAA TGCATTCATA 33551 AGAGCAGCTT AACAAAATTT GTTAGAAGGC ATTAAAGAAG ACTCAGTATA 33601 GAAAAGATGT ACCTTCTCTC CAAATTGGTG ATAGAGATTC AATGCCATTA 33651 AAAAAACCCA CCTGGTTTTT TTGAGGAACT TGTCAAGCTG AGTCTCAAAT 33701 TTATATCAAA GAGCAAAGGC CTAAGAATAT CCAGGACATT CCTGAAGAAC 33751 TGTAAGGAGC CAGGGGCCTG CCCTATCAGA TACCAAGGGT TGTTATTAAG 33801 CCATAACCAA GTCAGTGCTG TTTCTACAGA AACAGACAAG TTAACAAGTG 33851 AAACATAATA GAGAGCCCAG AAACAGACCC ATCCATATTT TGGATTTGTC 33901 ACGTGAAAGA AGTAGCTTTG CAAAACTTTG GGAAAAGGAG AGTGTGTGCA 33951 ATAGATGATG CTCGTGCTCA TGCAGACAAA AAGGAAATTG GGATACCTGC 34001 CTCTTACCGT ACACAAACAC CAACCTAAAC GTGAAAGTTA AACTATAACA 34051 GCTTGAGGTG GTGGGGAAGA AATATCTTTA TCTCAGTGTA GGGAAGAATT. 34101 TATTTTAAAA AGAAGACACA AAAGGCCATA CATAGGAATG AAAAGATTGA 34151 ATTCAGCTGC ATTAAAAAGA TTAAATTCAG CTGCGTTAAA ATCAAGAGCA 34201 TCTGTACTTG GACAGCATAG AGTGGAAAGA CAAAGAGAAG GTATTTGCCA 34251 GCTTATAACT TGAAGGATTA GAATGAATGA TATAAAGAAC TATGTAAATA 34301 AGAAAAAGAC ATACAACCGG TTAGAAAAAC GGGCAAAGAC ATGAACAGCA 34351 TATTTCACGT GAAGGAAACA GCGGTAGCAA ATGAACATGG TAAGAGATGC 34401 TCAACACGTT TAGTAATTTG AAGGGAAATG CAAGTTATAC CCACAGCAAG 34451 ACTATCTTAT CTAGGAAGTT TGTCAATACC CTAAATGTTC TGTGGTTTTA 34501 AGCTACAGAG TITIGTAATTC ATTTATTTAT TCAATAAATA CTCAGTGGCA 34551 GGCACTGTTT TAGAAACCTT GGTTATAACT TTGAATGAAA TTAAAAAAAA 34601 TCCTTGCCTT GTGGAGGATG CTTATGTGTG GGGAGTTGGG TGGTGGGGTC 34651 AAACAACAAT TACATTAAAA TAGAAAATAG TGACATAAAT AAACCTATAA 34701 ATATTGCAAC CCAGAGTTAT ATTATAAATG TAAGTAGTGA CTAGGACTCT 34751 CATGCAGATA TACCTCTGTG CTGGGACAAA TGAAAGTTTA AGTGTAATTT.

34801 CCCATATGCA AGTCAAAATA AAAAGTGACA CTAGAAAACA CAATAATGAA . 34851 TATCTGAAAA TTGCATTTTA TTTGACTGCC ATCCTTTTGC ATCATTTTCA . 34901 TACTAATTAT. AGAATAAAAT TTGTAGGATG CACCAAAGCT TTTTTTAGAG 34951 ACATCCATTA ATTCAATAAA TAAATGAGCA CCTTCTTTGT GCCAGCAGCT 35001 GTAAGAGGTG GCCCAAGGAA GGGAATAAAA CAGTCAAAAT CCTGGTACAC 35051 TCAGAGTTTC TCTTAGGAGA AAACAGATAC AAATGGCATT AATTACCAAG 35101 AAACTTGTAA AACAAGCCAA ATATTAATGA TAAATATTTG AGTACAGTAT 35151 GTTAATTTTA AGATTGAAAA TGAGGTGCCA GGATTTCTTA AGACTCAAAG 35201 GCGAAGATGG CTGAATAGGA ACAGCTCTGG TCTACAGCTC CCAGCGTGAG . 35251 CGACGCAGAA GACGCATGAT TGCTGCATTT CCATCTGAGG TACCGGGTTC . 35301 ATCTCACTAG GGAGTGCCAG ACAGTGGGCG CAGGTCAGTG GGTGTGTGCA . 35351 CCGTGCGCGA GCTGAAGCAG GGCGAGGCAT TGCCTCACTC GGGAAGTGCA 35401 AGGGGTCAGG GAGTTCCCTT TCCTAGTCAA AGAAAGGGGT GACAGATGGC 35451 ACCTGGAAAA TCGGGTCACT CCCACCTGAA TACTGCACTT TTCTGACGGG 35501 CTTAAAAAAT GGCGCACCAG GAGATTATAT CCTGCACCTG GCTCGGAGGG 35551 TCCTACACCC ACGGAGTCTC GCTGATTGCT AGCACAGCAG TCTGAGATCA 35601 AACTGCAAGG CGGCGGCGAG GCTGGGGGAG GGGCACCCGC CATTGCCCAG 35651 GCTTGCTTAG GTAAACAAAG CAGCCGGGAA GCTCAAACTG GGTGGAGCCC 35701 ACCACAGCTC AAGGAGGCCT GCCTGCCTCT GTAGGCTCCA CCTCTGGGGG 35751 CAGGGCACAG ACAAACAAAA AGACAGCAGT AACCTCTGCA GACTTAAATG 35801 TCCCTGTCTG ACAGCTTTGA AGAGAGCAGT, GGTTCTCCCA GCACGCAGCT. 35851 GGAGATCTGA GAACGGGCAG ACTGCCTCCT CAAGTGGGTC CCTGACCCCT. 35901 GACGCCCGAG CAGCCTAACT GGGAGGCACC CCCCAGCAGG GGCACACTGA . 35951 CACCTCACAC AGCCGGTTAC TCCAACAGAC CTGCAGCTGA GGGTCCTGTC 36001 TGTTAGAAGG AAAACTAACA AACAGAAAGG ACATCCACAC CAAAAACCCA 36051 TCTGTACATC ACCATCATCA AAGACCAAAA GTAGATAAAA CCACAAAGAT. 36101 GGGGAAAAAA CAGAGCAGAA AAACTGGAAA CTCTAAAAAG CAGAGTGCCT: 36151 CTCCTCCTCC AAAGGAACGC TGTTCCTCAC CAGCAACGGA ACAAAGCTGG 36201 ATGGAGAATG ACTCTGACGA GCTGAGAGAA GGCTTCAGAC GATCAAATTA . 36251 CTCTGAGCTA TGGGAGGACA TTCAAACCAA AGGCAAAGAA GTTGAAAACT . 36301 TTGAAAAAA TGTAGAAGAA TGTATAACTA GAATAACCAA TACAGAGAAG 36351 TGCTTAAAGG AGCTGATGGA GCTGAAAACC AAGGCTCGAG AACTACATGA 36401 AGAATGCAGA AGCCTCAGGA GCTGATGCGA TCAACTGGAA GAAAGGGTAT. 36451 CAGCGATGGA AGATGAAATG AATGAAATGA AGCGAGAAGG GAAGTTTAGA . 36501 GAAAAAAGAA TAAAAAGAAA CGAGCAAAGC CTCCAAGAAA TATGGGACTA . 36551 TGTGAAAAGA CCAAATCTAT GTCTGATTGG TGTACCTGAA AGTGACGGGG . 36601 AGAATGGAAC CAAGTTGGAA AACACTCTGC AGGATATTAT CCAGGAGAAC 36651 TTCCCCAATC TAGCAAGGCA GGCCAACATT CAGATTCAGG AAATACAGAG 36701 AACGCCACAA AGATACTCCT TGAGAAGAGC AACTCCAAGA CACATAATTG 36751 TCAGATTCAC CAAAGTTGAA ATGAAGGAAA AAATGTTAAG GGCAGCCAGA . 36801 GAGAAAGGTC GGGTTACCCT CAAATGGAAG CCCATCAGAC TAACAGCGGA 36851 TCTCTTGGCA GAAACTCTAC AAACCAGAAG AGAGTGGGGG CCAATATTCA 36901 ACATTOTTAA AGAAAAGAAT TITTOAACCOA GAATTTOATA TOOAGOOAAA 36951 CTAAGCTTCA TAAGTGAAGG AGAAATAAAA TCCTTTACAG ACAAGCAAAT, 37001 GCTGAGAGAT TTTGTCACCA CCAGGCCTGC CCTAAAAGAG TTCCTGAAGG 37051 AAGTGCTTAA CITGGAAAGG AACAATCAGT ACCAGCCGCT GCAAAATCAT 37101 GCCAAAATGT AAAGACCGTC GAGACTAGGA AGAAACTGCA TTAACAAACG 37151 AGCAAAATAA CCAGCTAACA TCATAATGAC AGGATCAAAT TCACACATAA 37201 CAATATTAAC TITAAATGTA AATGGACTAA ATGCTCCAAT TGAAAGACAC . 37251 AGACTGGCAA ATTGGATACA GAGTCAAGAC CCATCAGTGT GCTGTATTAA . 37301 GGAAACCCAT CTCACATGTA GAGACACACA TAGGCTCAAA ATAAAAGGAT... 37351 GGAGGAAGAT CTACCAAGCA AATGGAAAAC AAAAAAAGAC AGGGGTTGCA 37401 ATCCTAGTCT, CTGATAAAAC AGACTTTAAA CCAACAAAGA TCAGAAGAGA 37451 CAAAGAAGGC CATTACATAA TGGTAAAGGG ATCAATTCAA CAAGAAGAGC 37501 TAACTATCCT AAATATATAT GCACCCAATA CAGGAGCACC CAGATTCATA 37551 AAGCAAGTCC TGAGTGACCT ACAAAGAGAC TTAAACTCCC ACACATTAAT. 37601 AATGGGAGAC TTTCACACCC CACTGTCAAC ATTAGACAGA CCAATGAGAC 37651 AGAAAGTCAA CAAGGATACC CAGGAATTGA ACTCAGCTCT GCACCAAGCA

37701 GACCTAATAC ACATCTACAG AACTCTGCAC CCCAAATCAA CAGAATATAC 37751 ATTITITCA GCACCACACC ACGGCTATTC CAAAATTGAC CACATACTTG 37801 GAAGTAAAGC ACTCCTCACC AAATGTAAAA GAACAGAAAT. TATAGCAAAC 37851 TATCTCTCAG ACCACAGTGC AATCAAACTA GAACTCAGGA TTAAGAATCT 37901 CACTCAAAAC CGCTCAACTA CATGGAAACT GAACAACCTG CTCCTGAATG 37951 ACTACTGGGT ACATAACGAA ATGAAGGCAG AAATAAAGAC GCTCTTTGAA 38001 ACCAACAAGA ACAAAGACAC AACATACCAG AATCTCTGGG ACGCATTCAA 38051 AGCAGTGTGT AGAGGGAAAT TTATAGCACT AAATGCCCAC AAGAGAAAGC 38101 AGGAAAGATC CAAAATTGAC ACCCTAACAT CACAATTAAA AGAACTAGAA 38151 AAGCAAGAGC AAACACATTC AAAAGCTAGC AGAAGGCAAG AAATAACTAA 38201 AATCAGAGCA GAACTGAAGG AAATAGAGAC ACAAAAAACC CTTCAAAAAA . 38251 TTAATGAATC CAGGAGCTGG TTGTTTTTGA AAGGATCAAC AAAATTGATA 38301 GACCGCTAGC AAGACTAATA AAGAAAAAAA GAGAGAAGAA TCAAATAGAC 38351 ACAATAAAAA ATGATAAAGG GGATATCACC ACCAATCCCA CAGAAATACA 38401 AACTACCATC AGAGAATACT ACAAACACCT CTATGCAAAT AAACTAGAAA 38451 ATCTAGAAGA AATGGATAAA TTCCTCGACA CATACACCCT CCCAAGACTA 38501 AACCAGGAAG AAGTTGAATT TCTGAATAGA CCAATAACAG GATCTGAAAT 38551 TGTGGCAATA ATCAATAGCT TACCAACCAA AAAGAGTCCA GGACCAGATG 38601 GATTCACAGC CGAATTCTAC CAGAGGTACA AGGAGGAACT GGTACCATTC 38651 CTTCTGAAAC TATTCCAATC AATAGAAAAA GAGGGAATCC TCCCTAACTC 38701 ATTTTATGAG GCCAGCATCA TCCTGATACC AAAGCCAGGC AGAGACACAA 38751 CAAAAAAAGA GAATTTTAGA CCAATATCCT TGATGAACAT TGATGCAAAA 38801 ATCCTCAATA AAATACTGGC AAACTGAATC CAGCAGCACA TCAAAAAGCT... 38851 TATCCACCAT GATCAAGTGG GCTTCATCCC TGGGATGCAA GGCTGGTTCA 38901 ATATACGCAA ATCAGTAAAT GTAATCCAGC ATATAAACAG AACCAAAGAC 38951 AAAAACCACA TGATTATCTC AATAGATGCA GAAAAAGCCT. TTGACAAAAT. 39001 TCAACAACAC TTCATGCTAA AAACTTTCAA TAAATTAGGT ATTGATGGGA . 39051 TGTATCTCAA AATAATAACA GCTATCTATG ACAAACCCAC AGCCAATATC 39101 ATACTGACTG GGTAAAAACT, GGAAGCATTC CCTTTGAAAA CTGGCACAAG . 39151 ACAGGGATGC CCTCTCTCAC CACTCCTATT CGACATAGTG TTGGAAGTTC 39201 TGGCCAGGGC AGTTAGGCAG GAGAAGGAAA TAAAGGGTAT, TCAATTAGGA 39251 AAAGAGGAAG TCAAATTGTC CCTGTTTGCA GACGACATGA TTGTATATCT 39301 AGAAAACCCC ATTGTCTCAG CCCAAAATCT CCTTAAGCTG ATAAGCAACT 39351 TCAGCAAAGT. CTCAGGATAC AAAATCAATG TACAAAAATC ACAAGCATTC . 39401 TTATACACCA GCAACAGACA GAGAGCCAAA TCATGAGTGA ACTCCCGTTC 39451 ACAATTGCTA CAAAGAGAAT, AAAATACCTA GGAATCCAAC TTACAAGGGA . 39501 TGTGAAGGAC CTCTTCAAGG AGAACTGCAA ACCACTGCTT AATGAAATAA 39551 AAGAGGATAC AAACAAATGG AAGAACATTC CATGCTCATG GGTAGGAAGA 39601 ATCAGTATCG TGAAAATGGC CATACTGCCC AAGGCAATTT ACAGATTCAA 39651 TGCCATCCCC ATCAAGCTAC CAATGACTTT CTTCACAGAA TTGGAAAAAA 39701 CTACTTTAAA GTTCATATGG AACCAAAAAA GAGCCCGCAT TGCCAAGTCA . 39751 ATCCTAAGCC AAAAGAACAA AGCTGGAGGC ATCATGCTAC CTGACTTCAA 39801 ACTATACTAC AAGGCTACAG TAACCAAACC AGCATGGTAC TGGTACCAAA . 39851 ACAGAGATAT AGACCAATGG AACAGAACAG AGCCCTCAGA AATAACGCCG 39901 CACATCTACA ACTATCTGAT CTTTGACAAA CCTGAGAAAA ACAAGCAATG 39951 GGGAAAGGAT, TCCCTATTTA ATAAATGGTG CTGGGAAAAC TGGCTAGCCA 40001 TATGTAGAAA GCTGAAACTG GATCCCTTCC TTACACCTTA TACAAAAATC 40051 AATTCAAGAT GGATTAAAGA CTTAAACGTT AGACCTAAAA CCATAAAACC 40:101 CCTAGAAGAA AACCTAGGCA TTACCATTCA GGACATAGGC ATGGGCAAGG 40151 ACTTCATGTC TAAAACACCA AAAGCAATGG CAACAAAAGC CAAAATTGAC 40201 AAATGGGATC TAATTAAACT AAAGAGCTTC TGCACAGCAA AAGAAACTAC 40251 TATCAGAGTG AACAGGCAAC CTCCAAAATG GGAGAAAATT TTTGCAACCT 40301 ACTCATCTGA CAAAGGGCTA ATATCCAGAA TCTACAATGA ACTCAAACAA 40351 ATTTACAAGA AAAAAACAA ACAACCCTAT CAAAAAGTGG GTGAAGGACA 40401 TGAACAGACA CTTCTCGAAA GAAGACATTT ATGCAGCCAA AAAACACATG 40451 AAAAAATGCT CACCATCACT GGCCATCAGA GAAATGCAAA TCAAAACCAC 40501 AATGAGATAC CATCTCACAC CAGTTAGAAT GGCAATCATT AAAAAGTCAG . 40551 GAAACAACAG GTGCTGGAGA GGATGTGGAG AAATAGGAAC ACTTTTACAC

40601	TGTTGGTGGG	ACTGTAAACT	AGTTCAACCC	TTGTGGAAGT.	CAGTGTGGCA .
40651	ATTCCTCAGG	GATCTAGAAC	TAGAAATATC	ATTTGACCCA	GCCATCCCAT .
40701	TACTGGGTAT	ATACCCAAAG	GACTATAAAT	CATGCTGCTA	TAAAGACACA
	TGCACATGTA				
	CCAAGCCAAA				
	TTTACACCAT				
	GTAGGGACAT				
	AGAACAAAAA				
	CAGTGAGAAC				
	TIGIGGGTG				
	CTAGATGACG				
	TATGTAACTA				
	AATAATAAAA				
	TTATAATAGC				
	TGAGTATATT				
	TATCTTCATG				
	CATTACCATC				
	ATTGGCAGAG				
41501	TAATTTTTGG	GCCCATTTT.	ATCTAGATAA	TTAAAACTAT	CTGACAGGAC .
41551	CATAAAATGC	TTGCTGCCAT	TTCCAACAAC	CTATATTTGT	GGATGGGGTT
41601	TTTAATTTA	ATGAGAATAT.	TATGTTAGAA	AAGAAACTGT.	CATTCTGTAA
41651	AGTGGCCAAT	AATGTTAGTT:	TTATTTATCA	ATTTAGTTTT	GTACTTTGAT.
41701	CATTTTTTA	AAATTTCAGC	ATTGATGTTG	ATGGGACAAT	GACAGTGGAC
					CAGACATTGA .
					CITTATGTAT
	TTATACTTAT				
	ACTCTGTAAC				
	CCTGTAGAGT				
	CAAAAAAAA				
	CGGTCTCCCT				
	AGCTGGACTG				
	TTCTCCTGCC				
	ACGCCTGACT				
	TTGGCCGGGC				
	GCCTCCCGAG				
	AATGGTGCCC				
	TCCACCTCCC				
	CTCTGCCCAG				
	CCGCCCATCG				
	GGAAAGTGAG				
	CGTCTCTGCC				
42651	GGCTGCCCAG	TCTGGAAAGT	GAGGAGCGCC	TCTTCCCGGC	CGCCATCCCA
42/01	TCTAGGAAGT	GAGGAGCGTC	TCTGCCCGGC	CGCCCATCGT	CTGAGATGTG
	GGGAGCGCCT				
	CTCGGCCGCC	CCGTCTGAGA	AGTGAGGAGA	CCCTCCCCCC	GGCAGCCGCC
/2001		AGTGAGGAGC	GTCTCCGCCC	GGCAGCCACC	CTGTCCGGGA
44301	. CCGTCTGGGA . GGGAGGTGGA		GTCTCCGCCC	GGCAGCCACC	CTGTCCGGGA
42951	GGGAGGTGGA GTGAGGGGTG	GGGGTCAGCC	GTCTCCGCCC CCCCGCCCGG GCCGCCCCTA	GGCAGCCACC CCAGCCACCC CAGGGAAGTG	CTGTCCGGGA CATCCGGGAG AGGAGCCCCT
42951	GGGAGGTGGA	GGGGTCAGCC	GTCTCCGCCC CCCCGCCCGG GCCGCCCCTA	GGCAGCCACC CCAGCCACCC CAGGGAAGTG	CTGTCCGGGA CATCCGGGAG AGGAGCCCCT
42951 43001	GGGAGGTGGA GTGAGGGGTG	GGGGTCAGCC CCTCTGCCCG ACCACCCCAT	GTCTCCGCCC CCCCGCCCGG GCCGCCCCTA CTGGGAGGTG	GGCAGCCACC CCAGCCACCC CAGGGAAGTG TACCCAACAG	CTGTCCGGGA CATCCGGGAG AGGAGCCCCT CTCATTGAGA
42951 43001 43051	GGGAGGTGGA GTGAGGGGTG CTGCCCGGCC	GGGGTCAGCC CCTCTGCCCG ACCACCCCAT ATGACAATGG	GTCTCCGCCC CCCCGCCCCGG GCCGCCCCTA CTGGGAGGTG CGGTTTTGTG	GGCAGCCACC CCAGCCACCC CAGGGAAGTG TACCCAACAG GAATAGAAAA	CTGTCCGGGA CATCCGGGAG AGGAGCCCCT CTCATTGAGA AGGGGAGAGG
42951 43001 43051 43101	GGGAGGTGGA GTGAGGGGTG CTGCCCGGCC ACGGGCCATG TGGGGAAAAG	GGGGTCAGCC CCTCTGCCCG ACCACCCCAT ATGACAATGG ATTGAGAAAT	GTCTCCGCCC CCCCGCCCGG GCCGCCCCTA CTGGGAGGTG CGGTTTTGTG CGGATGGTTG	GGCAGCCACC CCAGCCACCC CAGGGAAGTG TACCCAACAG GAATAGAAAA CTGTGTCTGT	CTGTCCGGGA CATCCGGGAG AGGAGCCCCT CTCATTGAGA AGGGGAGAGG GTAGAAAGAG
42951 43001 43051 43101 43151	GGGAGGTGGA GTGAGGGGTG CTGCCCGGCC ACGGGCCATG TGGGGAAAAG GTAGACATGG	GGGTCAGCC CCTCTGCCCG ACCACCCCAT ATGACAATGG ATTGAGAAAT GAGACTTTTC	GTCTCCGCCC CCCCGCCCGG GCCGCCCCTA CTGGGAGGTG CGGTTTTGTG CGGATGGTTG ATTTTGTTCT	GGCAGCCACC CCAGCCACCC CAGGGAAGTG TACCCAACAG GAATAGAAAA CTGTGTCTGT. GTACTAAGAA	CTGTCCGGGA CATCCGGGAG AGGAGCCCCT. CTCATTGAGA AGGGGAGAGG GTAGAAAGAG AAATTCTTCT
42951 43001 43051 43101 43151 43201	GGGAGGTGGA GTGAGGGGTG CTGCCCGGCC ACGGGCCATG TGGGAAAAG GTAGACATGG GCCTTGGGAT	GGGTCAGCC CCTCTGCCCG ACCACCCCAT ATGACAATGG ATTGAGAAAT GAGACTTTTC CCTGTTGATC	GTCTCCGCCC CCCCGCCCGG GCCGCCCCTA CTGGGAGGTG CGGTTTTGTG CGGATGGTTG ATTTTGTTCT. TATGACCTTA	GGCAGCCACC CCAGCCACCC CAGGGAAGTG TACCCAACAG GAATAGAAAA CTGTGTCTGT. GTACTAAGAA CCCCCAACCC	CTGTCCGGGA CATCCGGGAG AGGAGCCCCT CTCATTGAGA AGGGGAGAGG GTAGAAAGAG AAATTCTTCT TGTGCTCTCT
42951 43001 43051 43101 43151 43201 43251	GGGAGGTGGA GTGAGGGGTG CTGCCCGGCC ACGGGCCATG TGGGAAAAG GTAGACATGG GCCTTGGGAT GAAACATGTG	GGGTCAGCC CCTCTGCCCG ACCACCCCAT ATGACAATGG ATTGAGAAAT GAGACTTTTC CCTGTTGATC CTGTGTCCAC	GTCTCCGCCC CCCCGCCCGG GCCGCCCCTA CTGGGAGGTG CGGTTTTGTG CGGATGGTTG ATTTTGTTCT TATGACCTTA TCAGGGTTAA	GGCAGCCACC CCAGCCACCC CAGGGAAGTG TACCCAACAG GAATAGAAAA CTGTGTCTGT. GTACTAAGAA CCCCCAACCC ATGGATTAAG	CTGTCCGGGA CATCCGGGAG AGGAGCCCCT CTCATTGAGA AGGGGAGAGG GTAGAAAGAG AAATTCTTCT TGTGCTCTCT GGCGGTGCAA
42951 43001 43051 43101 43151 43201 43251 43301	GGGAGGTGGA GTGAGGGGTG CTGCCCGGCC ACGGGCCATG TGGGGAAAAG GTAGACATGG GCCTTGGGAT GAAACATGTG GATGTGCTTT	GGGTCAGCC CCTCTGCCCG ACCACCCCAT ATGACAATGG ATTGAGAAAT GAGACTTTTC CCTGTTGATC CTGTGTCCAC GCTAAACAGA	GTCTCCGCCC CCCCGCCCGG GCCGCCCCTA CTGGGAGGTG CGGTTTTGTG CGGATGGTTG ATTTTGTTCT TATGACCTTA TCAGGGTTAA TGCTTGAAGG	GGCAGCCACC CCAGCCACCC CAGGGAAGTG TACCCAACAG GAATAGAAAA CTGTGTCTGT. GTACTAAGAA CCCCCAACCC ATGGATTAAG CAGCAGGCTC	CTGTCCGGGA CATCCGGGAG AGGAGCCCCT CTCATTGAGA AGGGGAGAGG GTAGAAAGAG AAATTCTTCT TGTGCTCTCT GGCGGTGCAA GTTAAGAGTC
42951 43001 43051 43101 43151 43201 43251 43301 43351	GGGAGGTGGA GTGAGGGGTG CTGCCCGGCC ACGGGCCATG TGGGAAAAG GTAGACATGG GCCTTGGGAT GAAACATGTG GATGTGCTTT ATCACCACTC	GGGTCAGCC CCTCTGCCCG ACCACCCCAT ATGACAATGG ATTGAGAAAT GAGACTTTTC CCTGTTGATC CTGTGTCCAC GCTAAACAGA CCTAATCTCA	GTCTCCGCCC CCCCGCCCGG GCCGCCCCTA CTGGGAGGTG CGGTTTTGTG CGGATGGTTG ATTTTGTTCT TATGACCTTA TCAGGGTTAA TGCTTGAAGG AGTACCCAGG	GGCAGCCACC CCAGCCACCC CAGGGAAGTG TACCCAACAG GAATAGAAAA CTGTGTCTGT. GTACTAAGAA CCCCCAACCC ATGGATTAAG CAGCAGGCTC GACACAAACA	CTGTCCGGGA CATCCGGGAG AGGAGCCCCT CTCATTGAGA AGGGGAGAGG GTAGAAAGAG AAATTCTTCT TGTGCTCTCT GGCGGTGCAA GTTAAGAGTC CTGCGGAAGG
42951 43001 43051 43101 43151 43201 43251 43301 43351 43401	GGGAGGTGGA GTGAGGGGCATG CTGCCCGGCC ACGGGCCATG TGGGAAAAG GTAGACATGG GCCTTGGGAT GAAACATGTG GATGTGCTTT ATCACCACTC CCGCAGGGTC	GGGTCAGCC CCTCTGCCCG ACCACCCCAT ATGACAATGG ATTGAGAAAT GAGACTTTTC CCTGTTGATC CTGTGTCCAC GCTAAACAGA CCTCATCTCA CTCTGCCTAG	GTCTCCGCCC CCCCGCCCGG GCCGCCCCTA CTGGGAGGTG CGGTTTTGTG CGGATGGTTG ATTTTGTTCT TATGACCTTA TCAGGGTTAA TGCTTGAAGG AGTACCCAGG GAAAACCAGA	GGCAGCCACC CCAGCCACCC CAGGGAAGTG TACCCAACAG GAATAGAAAA CTGTGTCTGT. GTACTAAGAA CCCCCAACCC ATGGATTAAG CAGCAGGCTC GACACAAACA GACCTTTGTT	CTGTCCGGGA CATCCGGGAG AGGAGCCCCT CTCATTGAGA AGGGGAGAGG GTAGAAAGAG AAATTCTTCT TGTGCTCTCT GGCGGTGCAA GTTAAGAGTC CTGCGGAAGG

43501 CTGCGAGAAA CACCCAAGAA TGATCAATTA AAAAAAAAA AAAAAAAACA 43551 ACCCAAGACT GCATAAATGT CCATTCTGAA AACTTGGAAG AAGTACCACC 43601 TIGATGAATA AGCIGTCTAG CITTTATTGG CATTTAAGTA TTCTGCCATA 43651 GGGAAGTGTA AAAGTTGTAG GCTTTTACTT TITATAGGTA CTATATTGTC 43701 CAAATAATCT CAGCACCTCA TGGTTGCTAA GGATCTGTGT, CCTTGTTTGG 43751 TCAGATTATG TITATCTCTG GCATAAGGCA CTTAACAATA TTCATTAAAG 43801 GTTACAGAAT CTTTTTGCTT CATCTGCTTA GCATTTCATA CCAGTTTGTT 43851 TTCCACCAAA CTTTCAAATT, TTGATTGTTT, CATTAATATT CTGCATACTG. 43901 ATGTAAACCA AGTTCTATTA TTGTGCAATC TGCTCCTGAA ACCCTTAGGA 43951 ACTCTCTGAA GGAGTTTTAT, TTATTTTTTG TTTTTGTTT, TGTTTTTGTT. 44001 TTGTTTTTT GAGACGGAGT CTTGCTCTGT TGCCCAGGCT AGAGTGCAGT 44051 GGTGCGATCT CGGCTCTCTG CAAACTCGGC CTCCGGGGTT CACGCCATTC 44101 TCCTGCCTCA GCCACCGGAG TAGCTGGGAC TACAGGCACC CACCACTGCG 44151 CCTGGCTAAT TTTTTTGTA TTTTTAGTAG AGACGGGGTT TCACCGTGTT 44251 CCAAAGTGCT GGGATTACAG GCGTGAGCCA CTGTGCCCGG CCTTTTTTT 44301 TTTTTTTCT TTATGGGCTT GTCTTCTACA CTTCAGATTT GACTAAATTA 44351 AATATGCATT AAATGAAGTC AGGAGTTCAC ATTGCCACTA GTAACAATGC 44401 CTAAGCTTAC ATAAAGCATT ATAAAATTGT TGGTGATTAG TGCCTTCTCA 44451 GCTATGAGTA TAAGATAATA TTATACTAGT AGTTCAGTTG CCTAGATAAA 44501 TTGTACACTA TGTGAAGTTT TATTTACATA ATTCTTACGG TATTTTTTAA 44551 GGTAGTTGAT. AACAGTTGAG ACTACAATTG TATCTCCATT, TTATTGATAG 44601 TAAAATGAAG GAAGGGAGGG TTACTACCAT AGGAGAGCTC CTCCCCGTTG 44651 CACTCTTGCC TGTAAAAATT TTTCTGCCAA AACAATTTAG ATAATAGAAT 44701 TGTAAAAATA TTATTATAGA ATTGTTTCTC TCAAACTATA GTAATGTAGA 44751 ATAGGTTGAA GGGGTGATGA TITTGAAACAA TACCTCTCCA TTAGCTAAAT. 44801 TITATATAGA ATCTATTGCA TGTTTTAAAT GATAAGTCAG ATTTATAAAA 44851 ATATTTTTAT AAACAGTAGG AAATGAGTTT AGGGGTATTC ACATACAGTT. 44901 TTAATTTTTA TTTACATATT TAAAACATAT CATGGTATAA ATATGATGTG 44951 GATATAAATT. TGAGATAAAG GAAGTATTGT. TTAAGAATTG ATGAACTAAT. 45001 TTCTTAAAAG ATGTCATCAC CAGTTGGTTT. TCTAGCCTTA TGAAAAATGG 45051 TTGCAATAAA AAAGATTGAC TATGATAAAA TGCTGCCCTT TCATTTTAAC 45101 CTAGACCAAG AGAAAACATA CTGTGAATCT ATGATGAATG AAAGAAAGTT 45151 GTAACTGTTG GTTTTGTATA TTTGTAATTA CTGTTTATTT TCATTTCTTG 45201 TGAACTGATA CTGTACTTTG TTCATTGTGA GTAGACAACT TATAATCTAT 45251 GTACTCAAAT TGGTTTAGTA TAAATTCTAG GGAATGAAGT TCATATTAAC 45301 TGTAAAATAA CATGATTGTT CTCTAAAACA AAACGTCTTC TGGGATTATT 45351 TTTAACTAAG GCGCATGGGG ATCTTTTTT CATTTTTACA GGGAATTGAC 45401 ATAGGGGATA GCTTAACTAT TCCAGATGAA TTCACGGAAG ACGAAAAAAA 45451 ATCCGGACAA TGGTGGAGGC AGCTTTTGGC AGGAGGCATT GCTGGTGCTG 45501 TCTCTCGAAC AAGCACTGCC CCTTTGGACC GTCTGAAAAT CATGATGCAG 45551 GTGAGCTTTA TTATCGTGTG TCCAGGTTTG CCCTAAATAT TCTAAAACAA 45601 TGAGAAATGT GGTGCTTTGA AAAAGAAGTT TTAAAATTTC TCAGTAATAA 45651 TCTTTTATAC CCTAAAAAAT. AAATCTATTT, TGTTGCTGTT, AACTCTAAAT 45701 TCAGTCCATG TAAGTATGGC AGTGTACCAA ACCTTAAATT GTTAGTACAT. 45751 GTGTGTAATG AACTTTTAAT CTTTGGCATT CTATGACTAT TCAAACATTT 45801 AATTCAAAAA ATATCTCTAG CTATTGTTGT AGGATTCTCC TGATTTATAG 45851 TTTCCTTCTT TTTAATATAC TTTATCAAAA GTAAAGTATT TTTGAAATCT 45901 AGACTCTTAG AGCAGCAATG TAATTTTGAA AATTATTCTA AAGCTGAGGT 45951 TAGCAGAAAA AGATCTGGCT TTATAGACTG ACTTTGCTAT TTACTAGCAG 46001 TGTAGCATTG GGCTGGCCAG AGTGGAAAGA GGGAATGGAA AAGAATTAAT. 46051 ATGTATTTGC TCACTGTGGT AACCCAGTTA ATCCTTGCAG CAGCCCAGTG 46101 AAGTAGGTAT TITATCATTT TTCCAGGGGG AATCTGAGGC CCAGAGAATT 46151 GACTITICCT TTACAACAAA TGAGAGGGGG AATGCAGTAT CTTTGCCTCC 46201 AGTGCTCCTG GTTCTCATGC TGCATGAAAC CTCTGAGGTC TCATTTTCCT 46251 TCATTCTGGG ATGGGGATAA GAATATCTAA TAAGAATGGT TTAAGAATCA 46301 AGCAATATCA GGTATGTGAT AATGTCTGGT ACACTGGAAT AACCTATTGG 46351 AACATAGTAG TTGTTTACAA AATATTTTTA AAACTTTGTT ATACTTATGG

46401 TCAACACTTT TTATATTTGT CTGTAGATTT CTGTACAAAA AGATTCTGAC 46451 ACTGTTTTAA GCCAGCATTC CTTCAGAATG TACCCAAATC TCAAAATTTA 46501 TTTAGGGGCA AAGCTAATGC TTTAAAGAAA AAGGAGAGGG GATTGGTGTG 46551 TGTTTTCTT TAGGAACAGT AGTAACTTGA CTTTTAGAGA ACTTGAATAA 46601 GCATITATIT TITCCTITGT CCTATITIAT TGIGAAGIIT ATTTATITAA 46651 AATAAAATGG ATTTCTCTGG AATTTAGTTT CTGCAAATTT GAGGAGTTTC 46701 CAAAGTCAAC CTTCAGGTTT GATACTTCTC TAGAAAGACT CACATAACTC 46751 ACTGAAAGCT TATTACCCCT GGTTATGGTT TATTACGGGG AAAAGATGCG 46801 GATGAAAATC AGTCAAGTAA AGAAGCACAT AGGGCAGAGC TTCTGTTGTC 46851 CTCTCCCTGT GGAGTCTCCA TGTCTTACTT TCCTGGCACT GTTATGTGGC 46901 ACTAGGCATG GAATATTGCA GACCAACCAG GGAAGCTCAC CTGAGCCTTT. 46951 GGTGTGCAGA GTTCTTATTG GGGCCTGTTT TCATACTGGC CACATGGCTG 47001 GCCTTCAGAA TTCAACCCGT TCTGTGAGTG TGTGTGTGTG 47051 TGTGTGTGT TGTTTAGTGG TAGTCACCCC TTTTATGTGA GCTGAAACAA 47101 TCAGAAGAAT AGCTGATTTG TTTAATTATT TTTGGTGTAT TGGACTTAAT 47151 CAGTTTTTAT. CTGTAGGTGG TCATAAGGTA CAGTATTTTT, AAGTGACTAC 47201 CACATCTGTA GTATAAGCCA AGTAATTTAT CAGTACTCAC AGGATGGGTA 47251 CATGTTGTAA TGAATTTATT GCCTAGAGAG GGCCTCAAAA TATGCCAAAG 47301 AGGGTGCAAT TITTATTTTT GGTTTCAGGC TGTATGCATT CCAGTGTTGG 47351 TAGCCCTGAT ATACACAATA TCCAAACCAT TTCAGACCCA TTTACAGTTC 47401 ATGTCTGTAC TACTTCTTGA GGAGAGGGAG TAACATATTA CTTTAAATTA 47451 TATGTAATAA TATACATACA TTAAATTATA TGTAATAATA TAATATTATT 47501 ATTTGCAGTA TACTTTTTA TITCCCTTTA ACTGAGCTTG TTCATGTTTC 47551 AAAGGGTGTT, CCATTGCCTG ATACATAATT; TAGTTAATAT TATCTTATGA 47601 AGGTTGTTCA TAATTTTAAT ACTCTTCTTG TCTTCTCTCT CTGCTTTCTC 47651 ACACTGAAGA TACCAATTAT TCTTAGTTTT AGAGTCAGAG ACAGGCCTCT 47701 AAAATCATGG CAATACTCCC TCTCATCATT ATATATATT TTCAACCTTT 47751 CTATATTITA TITTCAAATA TATCTTCTTG CAGTTAGAAA CGGTATTGAA 47801 AAAGATTGTG TGGTTGTTCT AGAAAAAGTA ATAGTAATAT GCCACCAGCA 47851 TTTTATATCA TTCTGCTTTT ATTTTTAGGT TCACGGTTCA AAATCAGACA 47901 AAATGAACAT ATTTGGTGGC TTTCGACAGA TGGTAAAAGA AGGAGGTATC 47951 CGCTCGCTTT GGAGGGGAAA TGGTACAAAC GTCATCAAAA TTGCTCCTGA 48001 GACAGCTGTT AAATTCTGGG CATATGAACA GGTAATTGTT ATCACCCGTG 48051 GAATTTATTA ACAAAGAGGA GTTAGTAAAC GGATTCAATA AATGTTAATG 48101 TATAATGCTT TTGGGATTCT TGTTTTAATA CATGATAATC TTTCACATAT. 48151 ACCCCATAAG GAGGATCACT TATAGGAGAT TAGACTAAAT AAAATCAGAG 48201 ATTTCTCATG ACCAAGITAT GGGATTCTTA ATTCATCATA TTATTTATAA 48251 AGTTTTTTT TTCTAAGTAG TTCTTAAAGG AAGGGTAGAA TTTTAGTTTA. 48301 TTCATTCTGA ATCCTGAGCA GAAGCAGCAC ACTAACATAA GTTTTATGAA 48351 AGTGTCACAA TCTAACCTCT GGAAGGAAAA CTATAAGTTG AAGTCCTTTG 48401 TGTAATTTGA CGTTGCTGTA AAATTGAGCT GAGTTTGGAG TGACACCTCC 48451 ATGAAGGCAG GGGCGTGGCT TCTTCCCCAT GTACTCCAGC ACCTAGACAG 48501 AGCTTGGCAT GTGATAAGTT TCAAGCGAGT GTTGAATGAG TCAATGAATG 48551 AACAAATGCA TITACCTCTG AATCACTTCT CTGTCGGCTT TTGTTAACTT.
48601 GGATTATTTG AGCTATTGCT TCAGCCTAAC TCAATGTAAA GGGGAAATAC
48651 AGAGGTAAGT TTTAGAGTTT GGGTTCTCTT TATGGTCATT AGCAGAACTG 48701 TCTAGTTGAG CAGCCACAGA TTATGTTTTC CATTATTTAT TCCATCATTG 48751 TTTATCAAGG ACTGTAAGGG CCTTGAAATT CAACTCCCCC CCCCATAGTT 48801 TTTGTATTAT TCCATGTAGA TTTTAGATTA TTCTGGAGAG TGTTTTGTTC 48851 TTGAGCAACA GAATACTCTT. GAGAAGATTA CGAAGTCCAG TGGTATCCTT. 48951 AGAAAATCTA GTCTCCAGGA TTTTAATTAG AACCTATCCT TGGGAAGGCT 49001 ATTITCCTTA TATGAAGGTT TGAAGATTCA AATCATGATT ATTAAGGGCT 49051 AATGTTTGAG ATACCCTTAG GTTATTCTGA CCACATACTT GGATTTTATG 49101 ATAGGAAAGC CACAGCCTAA AATAAATAAA TACTCAATGC AGTTATTTCA 49151 GTATGCAAGA AGTTTGGTAT, TTTTGAAAAA GTCCATGGGT, ATTGCAAGCA 49201 AATATGCACA TITTGCTITA TGCCATTIGT CAGATICITA CCTIGGATAC 49251 CACCAACAGG CATCCTCTGC TTCTGTCCAC CCAAGCTCCT TCCTGAGACC

49301 TCTTTATAGT ATTGTGATTT CTGCACACTA ACTTTCTTAG ACATGAAGAG 49351. AAAGCTGTCT, ACACAGTGTG GTGTAGTTTT, CTTATGGGCT CTGGACCTAT 49401 GGTGCTGTTT TCTCTCCTCC TGCTGAAGGT CCATTCATCC CTCGGGGCTC 49451 TCTAAAAGCC ACCTTCCTGT GACAAGCATA TACTAAGCAT CTCAATCAAA 49501 GCCAGTTCCT CCCCTGTCCA GCCTCCCTCG AGTGCTGAAT TGCAGAATAT 49551 CCCATTTTC ATTGGATGAT GGAAAACCCA TTGTTTTCCC AGTGGATTGT 49601 AAATTACTTC GGGGTAAATA GGCTGTATAT ATTCTCAAAT. TTCCCAGAGT 49651 ATGTAACTAG GTCACTTTTA GATTCAGATA GATTTTGTTC CTTGAATAGC 49701 TAGTACTTTA GGAAACTAAG AAAAAGATCT. TTTCAACCTG GTATGTAGCT. 49751 CTGTCAAACA CATCATCAGT ATGGGGTAAA CCTGTGTTCT CTGTGGGTTG 49801 TCATTACCAT AGTAGTGTCA TTGTATCATT GACAGTGTAA TAGTGTGGGG 49851 TAGTGTTCTT. GTGGTTTCAG CTGCCACTCT. GTACTGACTG CTTTCCACTC 49901 CAACATCTTC CTCTTTATCT CAACACTGTA GGTCTACCTG TGTACTGTGT 49951 GITTCAGCAT, CTCTGCTTGC ATGACCCAGG AGTGCCTCCC ACTCAATATG 50001 GCCACCATGC ATGGTCATCT TTCTGCTACT CCCTGTCTCC TGACCCTGCT. 50051 CCAGCAACAC AGACAGACAC CCTTCCTCTT TCTATATGTC ATATGGTGGG 50101 GAATGCCCTT TAGTACTTAC TCAGGAGTTA GTTCCTCTGG GAAGCCTTCT 50151 GTTCTAGTTT CCTTTTGTTA CAGCACTTTC ACATTGAATT CTGACGTTCT 50201 CTGTACTTAT CTGCTTTGTG AGACTGTGAG CTTCCTTAGG CAGTAGCTAC 50251 TTGTATTCTT AGCACCTTGC CCAGTGCCAG GAAACCCTTA TTAAGTAAAT. 50301 GAAAAGACAG AACTGACAGA CTGGAATTAG AGCTCAAGCT TGCCTCAATC 50351 TCAAGCCATT AAGATGAAGG GGAGCCGGGC GTGGTGGCTC ACGCCTCTAA 50401 TCCCAGCACT TTAGGAGGTA GTTTGCTTGA GCCCAGGAGT TCAAGACCAG : 50451 CCTGGGCAAC GTGGCAAAAC CCCATTTCTA CAAAAAATAT AAAAATTAGT 50501 TGGACGTGGG GGTGTGTGCC TGTACTCAGG ATGCTGAGGT GGGAGGATCA 50551 CTTGAGCTCG AGAGGCAGAG GTTGCAGTGA GCTGGGATCA CACCATTGCA 50601 ATCTAGCCTG GGTGATAGAA TGAGACCTTG TCTCAAAAAA AAAATAAATA 50651 AATAAATAAA GGGGAAGATA AGGATTGGAA ACAGAAGGAG CAGCATGTGG . 50701 ACAGAAATGT AGGCACAAGA AGGCATCACT CACTGAAGAG ACTGAAAGTG 50751 GTTCACTGTG CCTCAAGACT GGTGGAGTGT GTTTCCGGAA AGATAATGAT. 50801 GAAAGAGCTG GACAGATAAA CAGGGGCCAA ATGTAATAGG AGTCTGGATT... 50851 TTATTCTGAA TATGGTAGGG GCTATTGTAG CATCTTATAT. AGGGAAGTGA 50901 AATGAGTACA TTCACATTTA AGGAATATCA ACCTGAAAAA AGAGTGGAGA 50951 CATTGTTGGG GGAGAGTGAG GTAGACTAGA GGCAGGGAGA ATATTTAAAT. 51001 AATTGAGGTA AGAAATGATG AACACCAGTA TAAGGTGATG TCTTTAAGGA 51051 ATGGAGAAGG GAATGAACTG AGAAATATTT TGGAAGTAGA ATCAACAGAA 51151 TATTCTAATT TCTAACTTGA GTGACTGCAT TCAAAGAGAA TACAATATCA 51201 GGTTCCATTT TGTGCATGCT GAGTTTGAGA TGTGTGGGAC ATGTACAGGG 51251 AGCTGTCCAG TAAGCAATTG GGTATATCAG CTAGCCATTA AGAGAGAGAT 51301 CTTTGATAGA GAGGTTGTTG CTGAGTTGAG CCATTGGAAT GGGCAGGATC 51351 ACTCAAGAAG AGCTTATAAA TGAGAAGAAT TCTAGGAATA AGTCCAAAGG 51401 GAGAAGTAAA AGAAGAAACT TGCAAAGGAC ACTGAGAAGA AATAGCTCGA 51451 GGGATGGGAG AAAATCCAGA GAGAGGGATG GCATAGGAGT CAGTGGAAGG 51501 AAACGGTTTC ATGGGGGTCA GTACTACTGG GTAGTGAATA TAATAAGAAT 51551 ATCTTTTAGG ATTTCTCAAC CCAGAGATAG GTAAGCTTAG TATAAATGCT 51601 TCTGTGAAGT AATGAAATGA GAAACCATGC TGAAATGAGC TTAAAGTGAA 51651 TGGGAGGTGA AGAAACTTGG ACAGTAGAGA CACATTTTTA GGGAGTTTGA 51701 CAGTGAAGAG AAGGAAACTA GAAGAGGGAG AGGGTGATAG ATAAGAAAGA 51751 TGTTGGGTGG AGGGGATTTG TTTTTTGTT, TTTTTGTTT TTTTCTGTTT. 51801 GTATGTTTGT TTGTTTTTGA GATGGAGTCT CACTTTATCA CCCAGGCTGG 51851 AGTAAAGTGG TGCAATCTCA TCTCACTGCA ACCTCTGCCT CCTAGGTTCA 51901 AGTGATTCTT. CTGCCTCAAC CTCCTGAGTA GTTNNNNNN NNNNNNNNNN 52001 NNNNNNNN NNNNNNNNN NNNNNTGCCT CAGCCTCCCG AAATGCTGGG 52051 ATTGCAGGAG TGAGCCCCCC GTGCCTGGCC TGGAGGGAGG ATTTTGATTT 52101 GACTTTAATG TGCCTGTTGC TGAAGGAAGC ATGTCAATAC AAATAAAGAA 52151 GTTGAAAACA TAGGTAAGAG AGGTTGATTA ACCCGGTAGG TGTTTCAAGG

52201 GAGTTTGTGT GTAGGGAAAG GGAGTGGGAG ATGGAAAGGG GCTGGGGGAG 52251 ACAGGTTCTA TCCAGAGACT GTTAAAAGGA TTAGTCTTTG ATTACAAGAA 52301 GAACTCTTCT TATACGTGTT TGGGAAGAAA AAATATGTGA GTAGCTATGG 52351 ATAATTTTGC AGGAGGTGGG CAGAATACCA AGATATTCTG CCTGGTGGCC 52401 TCTCTACTCT, TCCTTGAGCT, CCTGAGAAAG GATGTGATCT, GAGAATGAGG 52451 GAGGAAGTGG TATTGGAAGC TGGAGGAGAA TGGAGAAGAT, CAAAATGGTT 52501 AGTCTAACAA ATGGGAGAGA ACTGAGATAG ACAAAAGGAT. TTCAGGGTGG 52551 TTTTGAGGGC TCAGTTAAGT CTCCTTTAGG AAGGTTCAGT TCTGTAGCCT 52601 TGGCAAGTTA CTTAAAGTCT. CTGTGACTAT. TACCTCATCT. CTAAGATGGG 52651 GACTAAGCTT. GGTGACATAG TTTTACATAC CAGGCACAGT. GCCTGACTTT. 52701 TTGGCTCTGT. CCTGAAGTCT. TCCCTTTGTA TATGGTATGT. TTCGGGGAAT 52751 AGGAGCCTCA AGCACTTATC CTTTAAATAT TTATCCTCCA TCAGTCACTA 52801 AACGITTACT CTGTACTITT GATAGGTGCT GTGGGGGTCC AGGGTATAAA 52851 AGGTACCTTC AAAGTTACTG TTAAAGTGCA GGAAGGTTTT TAAGCAAATT 52901 ATGTTTAATG ATTTTGACAA TCTGACATGC AGGAAAATTA ATAGGGCCTA 52951 TGCAGAAGAG GAGTTTTATG TAACACTCTG TAGTTCAGGA AACAGAGCCC 53001 TTGGAAGCAG TGATCTCTCT GGGGAGGAAT GTCTGGTATT, TGGGAATCTC 53051 ATGAAATGAT AATATACTTA ATTTTTATCA TGAGCAGCAA AACACAGATT. 53101 TGCTAGGAGA AAGTCATCGT ATGTTGTTGC ATTGGGCACT TTAGATCCCA 53151 GGGAACAGAA ACTGGCTGGC ACAGGAATGG GCATCACTGT GGGGATGGAT 53201 CATGTAGGGG AAGGATCCCT GGAGAAGTCC AGGAGGTGAG ACTTCCCCCT 53251 TCCCTTCTCC ATGCATGAGT CCACTTCTCT CTGTTGACTT TCCCCTTGTC 53301 CCTCTGGTGA CAGCAGCTGC TTACCTCTGG AGACCCCCTC ACATTTCTGA . 53351 GAGAAGGAAT CTGGCTTGCC TGGCTAATTC CCATGGTCTA TGTTTGGGCA 53401 GAATGTCTTA GCAAGTTGTG TAAAGATAGT. GTATTCATAT: ATTAATAATA . 53451 ATAATAACAT CTACTGAACA TITTGCTAGGT GTTCAGACCT GCACTAACCG 53501 TGTTACAAGT ATTATTTTT TGTAATCCTT TCCATAACCC TGTGAGGTAA . 53551 GTACTGTTAT CACAGACAAG GAAACCACAA TGTGGACCTG TTCATGAACT 53601 TGCTCGAGGC CACGTGGCTC TGGAGTTCCA GCTCAGGTCT GCCTGACTCT 53651 CAATCCCATG ATATTAATAT ACTGGCCAGT CACTATTTTG GCTGTATTGG 53701 GGTCATATTT ATACCCTTGG TCCAGTTAGC TATGTTGGGT CACTTTAGTA 53751 CTGATAGCCA GGGAGATGCT GGGCTTGATA GGTTAGTATA ATTCTATGTA 53801 TTACCTACAA AAACTGTTTT TATAAATTGT TTTGTTAACA TTTGTTTGTC . 53851 ACCTATTTAT TCATTTTATT TGCACTGGTG AAAATAAACT CATCTTTTAA 53901 AAACTGTGGG GAAAATATCC AAACATTGTG AAAACTTGAT TAACCTTGTA 53951 TTTTCTGTAC ACCTGGGGAG GGATGCTGTT ATGCTGTTTC AGCAAAGGAG 54001 CAACTTGGTC CAATCTGGGA GACATCTGTG TTTTGTGGAA ATCTGACTTG 54051 AAAACCACTG TCCAGTCACT GCGTGTATTA GCATTTAGGC CTTGCTCTTC 54101 TGCTATGTAT TATTAATGTA GTGTATACAT TTCGAGACAC ATCATCACAT. 54151 TTGTCAATTT ATTGATTTCT AGGAGCTGAT TTGTATTCTA GGATTGTCTA 54201 GTTGGCTTGG GCTGCCATAA AATACCACAG TGTGTGTGGA ATCAACAACG 54251 GAAATTTATT TCTAACAGTT TCAGAGGCGG GAAAGCCTAA GATCAAGGGC 54301 CAAGCCAGTT TGATTTCTAG TGAGCGTTCT CTTCTCAGCT TGTAGACAGC 54351 TGGTATGTGC TCACATGGTC TTTTCTTGGT GCACATGTGA AGGGGGAGAG 54401 AGAGAGTGGG CTCTCTGGTG TCTGCTCTTA CAAGAACACT GATCCTGTCA 54451 TGAGGGCTCC ATCCTCATGA CCTCATAACC CTAATTACCT CCAGAAGCCT 54501 CATCTCCTAA TACCATCACA TGGGAGGTTA CAGCTTCAAC ATATGAATTT 54551 GGTGGGGGTG CAGCTCAGTC CACAGCAGGT AGTAATGTGC ATTTTAAAAC 54601 TTGTTTATAC AGTACAAGAA GTTACTTACT GAAGAAGGAC AAAAAATAGG 54651 AACATTTGAG AGATTTATTT CTGGTTCCAT GGCTGGAGCA ACTGCACAGA 54701 CTTTTATATA TCCAATGGAG GTGAGTACCA TTGTCAAGTC TGACTGTGTG 54751 ATGGTGTTCG TGTTGGTTGT CTATTGCTCT CTAACAAGTT ATCCCAAAAT 54801 TAACAGTTTA AAACAAGCAT TTATCATCGC ACAGTTTCTC TGGGTCAGGA 54851 ATCTGGAAGC AGCTTAGCTG GGTGCCTCTG GCTCAGGGTT TTTCACAGCC 54901 CACAGTCAAG ATGGTAGTCA GAGCTTGGAA TCAGCTGGAG GCGGATTCCA 54951 AGCTCACTCA TGTTGCTGCC AGGCCTCACT GGCTATTGGC TGGAAACATC 55001 AGTTCCTTAT CACGTGAGCC TTTCTGTAGG CTGCCTGAGT ATCCTCAAAA 55051 CACAGTAGCT GGCTTCCCTA GAGTCAGTGG TCCAACAGAG AGAGAGAGAG

			,			
	55101	AGAGTGCCTA	AGATGAAAGC	TGGTATCTTT	TGCCTCTTCT	GCTGTATTCC
				CTGGTAGAGT		
				AATATCACTG		
				TGCCATTCCT		
				TCAGGATTTG		
				TGCATAGGTT		
				ACCTAAGAAT.		
	55451	GTGGGCAACA	CAGGAAAAAG	TGAGAAAGAT.	CTAAAATCGA	CACCCTAAGA
	55501	TCACAATTAA	AAGAACTAGA	GAAGCAAGAG	CAAACAAATT.	CAAAAGATAG
	55551	CGGAAGACAA	GAAGTAGCTA	AGGTCAGAGC	AGAACTGAAG	GAGATAGAGA
				ATCATTGAAT.		
				CTAGCCAGAA		
				AAAAAATGAT		
				CCATCAGGGA		
				GAAGAAATGG		
				GGAAGAAGCT		
	55901	AACATGTTCT.	GAAATTGAGG	CAGTAATTAA	TAGCCTACCA	ACCAAAAAA
	55951	ACCCAGGACC	AGACAGATTC	ATAGCCGAAT.	TCTACCAGAG	GTACAAAGAG
	56001	GAGCTGATGC	CATTCCTTCT	GAAATTATTC	AAACAATAGA	AAAAGAGAGA
				TGAGGGCAGC		
•				TAGAAAATTT		
				AATAAAATAC		
•						
				CCATGATCAA		
				CAAATCAATA		
				GCATGATTAT.		
				CACTTCATGT		
	56401	GTTATTGATG	GAATGTATAA	CAAAATAATA	AGAGCTGTTT.	ATGACAAACC
	56451	CACAGCCAAT	ATCATACTGA	ATGGGCAAAA	GCTGGAAGCA	TTCCCTTTGA
				TGTCCTCTGT		
				GGCAATCAGG		
				AAGTCAAATT		
				CTCCTTGTCT		
				AAGTCTCAGG		
				ACCAATAATA		
				AATTGCTACA		
				TGAAGGACCT:		
				GAGGACACAA		
				CAATATCATA		
	57001	CATACTGCCC	AAAGTAATTT	ATAGATTCAA	TGATATCCCC.	ATCAAGCTAA
	57051	CATTGAATTT	CTTCACAGAA	ATAGAAAAA.	CTACCTTAAA	TTTCATATGA
				AGCCAAGACA		
				CTGACTTCAA		
				GGTACCAAAC		
				TAACACCACA		
				GGAAAGGATT		
				ATGCAGAAAA		
				TTAACTCAAG		
				CCTAGAAAAA		
				ACTTCATGAC		
				AATGGGATCT		
	57601	GCACAGCAAA	AGAAACTATC	ATCAGAGTGA	ACCGGCAACC	TACAGAATGG
				TCCATCTGAC		
				TTTACAAGAA		
				CACTTCTCAT		
				CATCATCCCT		
				CATCTCACGC		
				TATGTGGAGA		
	2/A2T	GIIGGIGGA	GIGIAMATIA	GTTCAAGCAT.	IGIGGAAGAC	AGIGIGGCAA

	58001	TTCCTCAAGG	ATCTAGAACC	AGAAATACCG	TTTGACCCAG	CAATCCCATT
	58051	GCTGGTTATA	TACTCAAAGG	ATTATAGATT	TTTCTACTAT.	AAAGACACAT.
	58101	GCACACGTAT	ATTTATTGCA	GCACTGTTCA	CAATAGCAAA	GACTTGGAAC
		CAACCCAAAT				
		ATACACCATG				
		TIGTAGGGAC				
		CAGGAACAGA				
		AACAATGAGA				
	58401	TTTTTGGGGA	TGAGGGGCTA	GGGGAGGAAT.	AGCATTAGAA	GAAATACCTA .
	58451	ATGTAGGTGA	CAGGTTGATG	GGTGCAGCAA	ACCACCATGG	CACGTGTATA
	58501	CCTATGTAAC	AAACCTGCAC	GTTCTGCACA	TGTATCCCAG	AACTTAAAGT
		ACAATTTTTA				
		ACCGAGACCT				
		TCTTTACAGG				
		GTAGATGTGG				
		CTTAAGCAAG				
		ACAGCTTTTT				
		CTCTCAAAAA				
	58901	AGTTAATAGT	ATCACCTTCC	CAACTCCCCA	CTGCCCCATC	CTGTGTTCCA .
	58951	AGCTAGAAGT	ATTGGGGTTA	TCCTTTATAC	TACCATTTCC	CTCACCTTCC
	59001	AGATGCAGGT	GGTCACCAGT	CAGTTTIGTT	AAGACATCAA	TAGATTATCT
		TGCTTCCATT.				
•		CGGGTCTCTC				
		AGAGAATGTA				
		GGTATTTGTT.				
		TTAATATGAA				
		CCAGGCTGGC				
	59351	GCCAAGAAGA	TTTTGAAACA	TGAAGGCTTG	GGAGCTTTTT	ACAAAGGCTA .
	59401	TGTTCCCAAT.	TTATTAGGTA	TCATACCTTA	TGCAGGCATA	GATCTTGCTG .
	59451	TGTATGAGGT	GAGTTTGTAG	AAATCTTTTG	AATTGGAAAA	TGCAGTTAGA .
•		TCTTGTTAGA				
		AGTGTGTGAC				
		AACTTGAGTG				
•		GAATTGCTTT				
		ACCTTAAAAG				
		AATCTGACAT				
		TTCATTCCTT	4			
		AATCATTTAA				
	59901	TACAAACCAC	TAGGTTAGAC	ACTGGATCTG	GGGATTCAAA	GGACTCAATG
	59951	TGTGCCTTGA	AGAAACTGAA	GGTCTGGTGG	GGGAGACAAA	CGACTAAAAC
	60001	TCAGCGTGGT	TATCTGTGCT.	GCGACAGÁCA	TGAGCCAGGG	TGCATGTTAG .
	60051	GATGAGACCT	AAGCTACAGC	GTAGAGGAAG	AGTGGAATGT	GTAATGAAAA
		GAAGAGTCGA				
		TCCTTACATT				
		TTACATAATT				
•		AATTTTAAGT				
		AACCATCAAC				
		CTTAACCTTT				
		AACCTCTAAT				
		TATAAGTAGA				
		TTAGCATAAT				
	60551	TCATTTCTTT	TCATGGCTGA	GTAATATTCC	GTTATGTGTA	TATACCACAT
		TITGITTAGT.				
		CCAACATTGT				
		CGAGTCTATG				
		TGAGCCATAT				
		TTCCATAGTG				
	MOST	GITTICCAC	GICCITALIA	ACACTIAATI	ICCATTTIAA	AAAAGCTTAT

60901 TTTTATTATG GCCGTCCTCT TAGGTGTGAG GTGGTATGGT TCAGGACTTT 60951 ACTTCTTGTG CTGAGTTTTT TAAAAAATTG TGATTAAAAA CACATAACAT 61001 AAAGTTTATG ATTTTAACCA TTTTTAAATA TATAGTACAG TAAGTGTTAA 61051 CTGTTTGTGG TTTGTTGTGC AACAGATCTC TAGAACTTTT TCACTTCTCA 61101 AAACTTAAAC TCTATAGTCA TTAAACAACA GCTCCCAATT TCCCCTTCAC 61151 CCCAGCGCTG TGTAACCTAC TTTCTCGTTT TATGAGTTTG ACTACATTAA 61201 ATACCTTGTA TAAGTGAAAT CATGTGGTAT TTCTCTTTCC GTGACTGGCT. 61251 TATTTCATGT AACATAGTTT CCTCATGATT CATCCATATG ATAGCATACA 61301 ACAGGACTTT TTTGTTTTTA AGGCTGAATA ATAATTTGTT GGGTATATAT 61351 ATCACATTIT CTTTATTCAT CTGTTGATGG ACATTTGGAT TGTTTCTACA 61401 TCTTGACTAT TGTGAATAGT GCTGCAGTGA ACATGGTTGT GCAAATATCT 61451 CTTCAAGATA CTGTTTTCAG TTCTTTTTGA CATATACTCA GAAGTGGAAT 61501 TTCTGGGTCA AATGGTAATT CTATTTTTAA GTTTTTGAGG AACCTCCATG 61551 TCATTTTCCA TAGTAACTAG ACCTTTTTGT. TTTTTAACAT, TTCTATCAAT. 61601 GTACACCAAG ATTCCAATTT CTCCATGTCC TCCCCAACAC CATTAAGTGG 61651 GGTGGTGGTC TACTACTATT GCTGTGTTGC TGTTTATTCC TCCCTTCAGT /61701 TCTGTAAGTG TTTGCTTCAT ATATTTAGGA GCTTAATATT AGGTCCATAT 61751 GAAGTTATAA TTTCTTCCTG GTAAAGTGAC CCATTTATCA TTATGTAATG 61801 TCCATCTTTG TCTCTTGTGA CAGTTTGTGT CTTAAAATCT ATTTTGTCTG 61851 ATGTAATTAT GGCCACCCCT TTTCTCTTTG GGTTCCCGTT TTTATGGAAT 61901 ATCTTTTCC ATCCTTTCAC TTTCAGCTTA TGTGTGTCCT TAGATCTAAA 61951 GTGAGTCTCA TAGATAAGGT, ATAGTTGATT CTGTATGTGT: TATTCACTCA 62001 GCAATTTATA TCTTTTAGTT AGGGGATTTA ATCCATTTAC ATTTAAAGCA 62051 GTTACTGATA GGGAAGGACT TACTGTTGTC ATTTGGCTAG CTACCTTTTT 62101 ATCTTTGTCC TGTGGCTTTT CTGTTTTTCC CTTCCTCTCT TCCTGGCTTC 62151 TTCTGTGTTT TGTTGATTTT TTTTTTTTT GTAGTGATAT GTTCTGATTC 62201 CCTTCTCATT TCCCTTTGTG TGCATTCTAT AGATGCTATT TTTGTGGTTA 62251 CCATTGCAAC TACATAAAGC ATACTAAAGT TATAGCAACT TATTTTAAGC 62301 TGTTTACAAC TTAACTTCAG TGGTATATAA AACTCTATTT CTTTACATAT 62351 TTCACCTCCT CCCCACAAAC TTTATGTCTT TTGATATTGT ATATCCTTAA 62401 CATAGATTTA TAGTTACTTT TTATGCTTTT CTTCTTTAAA TTCTGTTTAA 62451 ATTTTGTTTT TGAAATTTAG ATTTTCAAGT TATTTATATA CCTTCATTAC 62501 AATACTATAG GATTTTATAA TATTCTAAAT ATTGACCTTT ACCATAGAGT. 62551 TTCATATTIT GTGGTTTTGT GTTGCTATTT ATCATCCTTT TGTTTCTCCT 62601 TTTAGCCTTT CTTGTAGGGC CGGTCTAGTG GTGATAAGCT GTATCAGCTT 62651 TTGTTTGTCA GGGACAGTCT TAATTTCTCC TTTTTTGAAG GGCAGTTTTG 62701 CCCATACAGT ATTTTTGTTT GGCAGTTTTT TTAAGTTTCA AAACATAGAA 62751 TATAACATTC CATTTCCTTC TAACCTGCAA GATTTCCATT GAGAAATGCA 62801 CTCAATGGAT TTTTTAATCC ATTGAGATAA TTTTTTAATC CTGTAGGATT 62851 TAAAATTTTT AGTCTTACAG GATTAAAAAA TTAAAAAGTT AAACTTGTTA . 62901 TATAACATAT. TAACATGTAT. TITTATACTTA AAGTATCTTA TGTTTAAAAA 62951 GTTGATTATC ATATATATT TATACAGTTT CTCCTAATTA TTGCCTTCTA 63001 ATGAAATÁCA GGGACCTAGA GTAACAGGGA TAAAGTATGG CCTTTTGATC 63051 AGCACGCCTG GTTCTGAGTC CTTCTTAAAA AAACTCTGGG CCTGGTGTGG 63101 TGGCTCATGC CTATAATCTC AGCACTTTGG GAGGCCGAGG CGGGCGGATC 63151 ACCTGAGGTC AGGAGTTTGA GATCAGCCTT GCCAGCATGG TGAAACCCTG 63201 TCTCTACTAA CAGTACAAAG ATTAGCTGGG CGTGGTGGTG GGTGCCTGTA 63251 ATCCAAGCTA CTCAGGAGGC TGAGGCAGAA GAATCGTTTG AACCTGGGAG 63301 GCAGAGATTG GGCCACTGCA CTACAGCCTG GGTGACAAGA GCGAGACTCC 63351 ATCTCAAAAA AACAAACAAA AACTCCGCTG AGATGAATTT TTCTCATTTC 63401 TAAAATCAGA ATAATAGATT TATGTAAGAG TTTCTGTAAG GCTCAAATGA 🔿 63451 AATATATGTA ACGTGTAAAA TGAGATACAA TTAGTAGAAT TATATTATTT 63501 TATTAATACT CACCATAAGA GGTGTTCTTT AGATCCTGCA GCGTTTGCTG. 63551 CGCAGTTCAC GTTTGTTTAG AAGAATGTCA GTAACCGGTG CAAACCTCAT 63601 GTGTTCCGCA CCCCCAGTGG CCTCCCACCT. CTCCACAGAG TCACCGCCTC 63651 CTGCAGTGCC TGCTGCTTCT GCAAATGCGT GGCCTCATCC TGCAGAAACG 63701 GGGCTTCTCA TGAGGTTGAG AATAGCTGTG AAAATGTTTA CGTTGAAGTT 63751 GTAGAGTTCG TTAATTATTT TCTTCTTAT TTCTCTGGCA GCTCTTGAAG

63801	TCCTATTGGC	TGGATAATTT.	TGCAAAAGAT	TCTGTAAACC	CTGGAGTCAT
63851	GGTGTTGCTG	GGATGCGGTG	CCTTATCCAG	CACCTGTGGT	CAGCTGGCCA
63901	GCTACCCATT	GGCTTTGGTG	AGAACTCGCA	TGCAGGCTCA	AGGTGAATTT
		AACCACACCG			
		GTTCTACTAA	· ·		
		TTTTCATTAT			
		TGCTCCCTCG			
-		GTATGCATAC	-		
		GTGTTACATG			
-		GGTTCAGATC			
64301	GGAATGAAAA	TTGTACAGTG	TTGTAAGAAT.	TACCAACAAT.	ATAAATAAAG
64351	CATCTTGGGT.	TTGTTAAATT	TTTGGTAAAT	GGTGGTTGGA	ATCATTTTT
64401	AGTGTTGCGT.	AGACCCTACA	AGTTTTGAGC	TGTGATTCCT	CCTCACTGTG
		CATTGTTGGC			
		TTGATAACTT			
		AAGTATGCAT			
		GTCTTATCCA			
		ATTCCCAACC		•	
		TCAGTAACTA			
		CTGCCAGATG			
		AGTGTAGAGT.			
		ACCAACTCCT.			
64901	TATAACCTAA	CTTGGGCGCT.	GCAGAATGCT.	GTCAGTGAAG	CTGAGACTGG '
64951	AAAGATGAGT.	GGGAGTTAGC	TGGGCACAGG	CCAGTGGAGT.	GGGAACAGAA
65001	AACATTCCAG	TTGAGGGAAA	GCATGTGTGA	AGACACTGAG*	GCAGGCACCA
65051	ACATGGTGTA	TTTAAGGAGC	TGAGAGACAG	TCATGGCTGT	AGAGAAAAAC
		GAACTACACG			
		GGGGATGGGA			
		CAGAGAGAAT.			
		GGACTGAAAT.			
		GCTCTGATCC			
		GCTGATAGAC			
		TCAGACATCT			and the second s
		ATTTCAAAGC	•		, v
		TAACCACATA			
		CGTTGTCTTG			
65601	TCTTCCTGCT	TGTTGAGGTC	ATTTCCAAGG	CCCAGGTCTT	TGTGCTTTTT
65651	CCCAAGCTTC	CCAGAGCTTC	TTCCATACTC	CCCTTACTTC	CTGAGATTTA
65701	ACTGTTĆTCT	CTTCAGCGCT.	TGTCTAGTAA	GAAGGAGGCA	GCAGCAGCAC
		TGGAAAGTGT.			
		TTTTCTACTT.			
		CAATTGCTCA			
		TGGAAGGTAA			
		TTATTACCAT			
		AAGAGGATCA			
		TCCTTTTACT			
		CATAATAATG			
		TTAGCCATGT:			
		ACGAATTATT			
		CAAACTTCAT.			
		GAAAATATGA			
66351	GTTGCATTTT.	TTGCTTTAGC	CTGATAATTG	AAACTTTCAA	CAATCTCTGG
		TCTCCTCGAA			
		CAAAAGGGAA			
		TATGTACACA			
		CCACACAATT			
		TGAATCCGAA			
		GTTAGAGTTA			
TCOOO	10101110101	ALIONOMITE	IAMICALIA	AICHAITI	

66701 ACGTTTATGC CAGTTCCTTT ATATTTAAAT TTCTTGTTTT ATATATTTTG 66751 AATGTCTTTA TAGATTTCTT TAAATTTCCT TATAGAACCA TTAATAGAAA 66801 ATCATTACAT TTAAAATATA CCTTACAGCA AAAGCATCCA AATAAGTATA 66851 GGGTTTATGT CCTTATTTTT CTTTCAGCTG AATACGAATG AGCACAGTGG 66901 TGGAATTTCT GAAGGGAAGT GATGAAATTA TATTTATTTC AGTGGGCACT 66951 TTTCCATTTT ACCACTGTAC CATTATTTGG TTCCTGGAGT TATACACTAA 67001 TTTTCAGTAT ATTACTGTTA AATTACCAAC ACAAGGCAAT TTATTTGAAA 67051 GATTCCGTTT ATCCTGCCAT TGCTTTGAAA AGCAGCAGGA AACGAAATCC 67101 TITGACTIGT ATCAGCTICT GCAGAGCATC TITGTTTTCC TITGTCCTTT 67151 GTTTCCTACC TTTTGAATCA GATTCCGTTT TAGTCAGGAA GACTTCTTGG 67201 GACCATTCTT AGTAACCTGA AATTTCTTTT TTAATTGCAT GAAGTGGATT 67251 GATCATGAGC AAATGATGTG CTTATTTCTC CCTCACTGTT, GAATATCTTT, 67301 GAACTTGCTG TTTTCAATAT GGGCAGCACA AAGGTGAGAG ATACATATTA 67351 ATAGTAGTAT GTATTACTCT TATACATTAG ATACCTATAT TTAAATGAAA 67401 GGCCCAATTT GTAAACATAT ACATTCATAT TCTCTCTGC CCCAAGTTTT 67451 AGGAACATGT TAGGATATAG GAGACTTAAT TTATAATAAT GAGAGCATTT 67501 TTTTATTTTA CTAAAGCCAT TTTTATAGTC AACTATCTTT TCTTATTTGT 67551 GTGATTAGAA CTTAGAAAAA TATTTACTAG TTGAAGTTAT TATCAGTTTT 67601 TAATTTAGTT CITAAACTCA TTTCACTTCT AATAATTTCT GITATAAATT 67651 GCCAGCATTT TAATGAAAAT CTAATGATGT AATAGGCATT TTCTTTATTT. 67701 GAACCTACCT CTTTTATTTT CTGAACCAAA GAGAAAGATG GACTGGTGTT 67751 TGTGAAACAT TTTTAAAAAT GTAGTTTCAT TTATATTAGT TATGTTTGAT , 67851 GGTTATTTGT. ACTTTTGAGT. AATATATAAA GTGACAATAT. TAAGGTACAT: 67901 GATCAGCTCT TTCTATTTT ACTCGTAAAA ATTATGGAAA TGAATAATTT 67951 TGCTAACAAC TTTGAAATTT CAAACTTCTG GAAAATATGA AAATATTCAT 68001 TGTTCATTAT. GAATTTAAAT. TGTAAGGTAT, GAATGTGATT. TGTCTGTACA 68051 TCTTGTATCT TTTCCAAAAA ATGATTCTGT ATCTTTTGGA AAAAAGCCGA 68101 GAGTTGAAGA TAGTATATTT CTGGTAGTAC TGAATATTTA CTTACAGTTT. 68151 CTATCAAAAA TATATATTIG TITCTAAAAT TACTIGTITT CCAGTITITA 68201 TTTTTTTAG AGAAAATTCT TAAGTCTCAG TTTCCTAATT GAAAAAAAAA 68251 AATTATAAAT AAAGCAAAAA TTGTATCCTA CAGCTTAGCT AGCTTAGATG 68301 TTTGGCACCA GTTTGAATCA TGCTTTTTAC AGCTGGCTCC ATGTAGTCTT 68351 TCCAAACATT TTGGCCTTTC CTGAGCAGCC CTTGTAGATA TTGTCTGTAT 68401 GATGCATTTT GACACAAGGT GATATTTTTT GTGATATCAA AATTCCACAT 68451 TTACCCATTA GAGTTACAGC CCTGGGGTTC ACAGTACCAA GGGGGACCCA 68501 GAGCCTCAGG ATTGGCCAGG CTCATTTTGC CGTGGAGTAT CAGTTTGTCT 68551 TGAAATTGTG GGAAAAAATT. CTAAGTTGAA TTCACTGGTA AGTAATTTTT 68601 TAAAATTTCA TAATGCAGAT TACATCCAAA ATTTGATTTA AAAATTAAAA 68651 CATAAGACTG CAGAGAAATT CTGCATTTCA ACTCCAATAC TATCCAGACT 68701 TCAGAAATAA CTTATCAGTT ATTTCTGTAA GCTTCTTGCT TACCTGGATA 68751 CCTGACAGGT GAGATGGCTG TAGCAGACAC TGGCAGTTCC CTGCCCACAC 68801 ACCTGTCCCT GTCCACAGCT GCACAAGGCA GCTCTGTGTG CAATTGCCAG 68851 CATCTGCTCC TCTGTTCTCA GGGAATCTTT GTTAGAAAAA TGCTGCCATA 68901 TTTGTTTCTC ACCTATTAGT CTTGTCTCCC AGTCAAGAGA ATAAATTTAT 68951 GCAAGCAGAG ATTGTACTTT ACAGTATTTT GTCTTTGAGC TTGGCATTAG 69001 GTTGCATTTG TAAAAATGTG GCATGGCTTC CTCATCCCCC AATAGGAACT 69051 TTGCCAGCCC TTTTGTTCTC ATGGAACTTC CTTTTTTGAA AAGAGCACCA 69101 AAGGAGTAAA AATACTGTGG AGGGAGCAAC CCTCCTTTGC CATATGCTCT 69151 CATTGGGAGA CATGTGGAGC AGTCTGAAGT CATTTAGGCC ACTCTCTGGG 69201 AGAGCACATC CTATGATGTT. CTCCCAGCCT. AGCCCCCTTCC ACTGTGCTCA 69251 AGTCCAAGCT GACCAGCTTT CTGACCACAG TGTAAACAAA GATGATTGTC 69301 AGTGGGCCCC AGAATCCTAT ACCCAGA (SEQ ID NO:3)

FEATURES:

Start: 2132

Exon: 2132-2314 Intron: 2315-17055

17056-17182 Exon: 17183-20983 Intron: 20984-21071 Exon: 21072-41719 Intron: 41720-41831 Exon: Intron: 41832-45391 Exon: 45392-45550 Intron: 45551-47878 Exon: 47879-48031 Intron: 48032-54612 54613-54720 Exon: 54721-59290 Intron: 59291-59458 Exon: 59459-63791 Intron: . Exon: ... 63792-63942 Intron: 63943-66164 Exon: 66165-66346 Stop: 66347.

CHROMOSOME MAP POSITION:

Chromosome 1

ALLELIC VARIANTS (SNPs): DNA

Position	Major	Minor	Domain
1722	. G ,	C A	Beyond ORF(5')
1767	. C	G A	Beyond ORF(5')
1840	. C :	G	Beyond ORF(5')
1857	Т	G	Beyond ORF(5')
1945	. G <i></i>	T'	Beyond ORF(5').
2007	. A	C	Beyond ORF(5')
2769	C	G ʻ,	Intron
3664	. C . ,	T	Intron
3827	G., ,	Α	Intron
4113	. C	T	Intron
4337	. A	G	Intron
4473	G	A	Intron
6455	T	G	Intron
6533 .	Т,	G A	Intron
6919	G	Ç	Intron
7305	. G	A	Intron (
7340	. A	G ,	Intron
7466	A	G	Intron
7589	G.,,	C ,	Intron
7810	A	C	Intron
9104	. G	A	Intron
9503	A	T	Intron
9898	. G	C	Intron
10196	. T	C	Intron
12327	. C	G A	Intron
13749	G	Α	Intron
14150	T	C	Intron
14529	G	A	Intron
14653	. G	Α	Intron
15871	A	G	Intron
19244	G ,	A	Intron
19387	. T	G	Intron

10447	_	_	T	
19447	C	G <i>.</i>	Intron	
20076	л Т	C	Intron	
20492	T	.	Intron	
20868	Т	C	Intron	
20941	Ť	<u> </u>	Intron	
	- 1			
21116	<u> </u>	. <u>.</u> T	Intron	
21701	<i>.</i> G	A	Intron.	
21710 .	A		. Intron	
21826	. C		Intron	
21840	-	т	Intron	
21841	.	ст		
	.	💆 1		
21843		<u>, .</u> C	Intron	
22045	C			
22061	G	, T	<pre>Intron</pre>	
22348		A G		
22682	Λ	G T		
22783		9		
		<u> </u>		,
23448		G		
24960°.	G `, .	A , "	Intron .	
24983		C		
25390		c		
26060	Ċ	T .		
		<u>T</u> z, .	Incron .	
30245 : .	C	G	Intron	
33664	.' G	., : /: T	Intron	
" 33883	. i . C	A	Intron	
34373	G	Α		
34558	Ġ	T		
43929	G		Intron	
	<u>J</u>	A	<u> </u>	
44309		C		
44997	·, T	G	. Intron .	
46538	, . A	G	Intron	
48153			Intron	
48288	G		Intron	
48412	G	A	Totron	
		,, A	Intron	
48446	C	<u>G</u>		
48456	. · G ′		: Intron .	
48789 🗀	C		Intron	
48859	, G , .	C	Intron	
49126	Α		Intron	· ,
49378	Ť.	_	Intron	,
	· · · · · · · · · · ·	,		
49482		C . !		
49741	. G. _.		Intron .	
49840	A	G	Intron .	
50102	G	. A	Intron	
50109	C	G G T	Intron	
50747	Ġ.	A	Intron	***
51272				
	G	. * . A	Intron	
52842	Ġ			
61837 .	. A	., .Ģ	Intron .	
62018	A	G	Intron	
65562	Α		Intron	,
65780		A .	Intron	
66092	G	<u>A</u>	Intron	
66617	C _.		Beyond (ORF(3')
66892	G ´	A .	Beyond (DRF(3')
67263	G	A	Beyond (ORF(3')
67651	Ğ		Beyond (DRE(3')
67935	Č		Beyond (DE (31)
UI 933			. Beyond (JNI⁻(J) .

69000 69134	T G Beyond ORF(3'). C T Beyond ORF(3').	
Context:		
Dala		
DNA Position		•
	TTGCCCACGCAGATGGCTGTTGATCTTTTCTGCAACAAATCCAGGAGTTTCTCCTTTTTG	•
	TTTTATAATTGCTCCAATAGATGCTTTAGGATTTAACTCTCTGCTTTTTAAAGCAGAATC	
	GCCATCCCAGGTGTGCAACCACGAAAAAATTAGACATCCGTGAGAGACAATGCCCTCCAT	•
	GGCCCAGTTTCCAGGCAGAGAGAAGCAGCTCTGGGCTGACCGCCAAGGCTCCGGCCCGAG	
	AGGGTCTTTAAGTGGAGTAACCAGTCTTCAAGACCCCGCTCCCAAGCCACCGACGCGCTG	
	[G,C,A]	
	CGCTGCAGCCCTGGACCTGCTGGGGGCCTCTTCCTCGGACCCGCATGCTGACAGCGGGAC	-
	TGGCAACTGGGCAGAGGTCGACCCCGGGTCCGCACAGCACCTCCCGAGACCCAGCTCCCAGCTCCCCAGCTCCCCAGCGCCGGCGAGGCCAGCCCGGCGGCGGCCAGTGCCGAGGCCAGCGCGGCGGCGGCGGCGAGGCCAGCGCGGGGCAGGCCAGCGCGGGGCAGGCCAGCGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGG	•
	CGAGCTCCTCCCCAGCAGCGGGGGACGGCCACACCCTGCGCGCGC	·
	GGGTCTCCGCTCCTGCGCCCTGCGCGCGCAGCCGCACCCCCGACGGCGCCCCAAACGCT.	(SEQ ID NO:35).
1767	AGTTTCTCCTTTTGTTTTATAATTGCTCCAATAGATGCTTTAGGATTTAACTCTCTGCT	*
	TTTTAAAGCAGAATCGCCATCCCAGGTGTGCAACCACGAAAAAATTAGACATCCGTGAGA	
	GACAATGCCCTCCATGGCCCAGTTTCCAGGCAGAGAAGCAGCTCTGGGCTGACCGCCA	•
	AGGCTCCGGCCCGAGAGGGTCTTTAAGTGGAGTAACCAGTCTTCAAGACCCCGCTCCCAA	
	GCCACCGACGCGCTGACGCTGCAGCCCTGGACCTGCTGGGGGCCTCTTCCTCGGACCCGC	
	[C,G,A] TGCTGACAGCGGGACTGGCAACTGGGCAGAGGTCGACCCCGGGTCCGCACAGCACCTCCC	
	GAGACCCAGCTCCCAGCTCCCTCACTTCCGGCTCTCTGGAGGCGGGCCCGGCCAGTGCCG	:
	CCGAGGCCAGCGCGAGCTCCTCCCCAGCAGCGGCGGACGGCCACACCCTGCGCGCC	
	GCGCGGGCTCGGGTGGGGTCTCCGCTCCTGCGCCCCTGCGCGCCGC	
	GGCGCCCCAAACGCTGTTGCGCCGCGCGCGCCCCAGCCCGGCCTCGCGCTGGTCCCGG	(SEQ ID NO: 36)
1840	TCGCCATCCCAGGTGTGCAACCACGAAAAAATTAGACATCCGTGAGAGACAATGCCCTCC	0,
	ATGGCCAGTTTCCAGGCAGAGAGAGCAGCTCTGGGCTGACCGCCAAGGCTCCGGCCCG	
	AGAGGGTCTTTAAGTGGAGTAACCAGTCTTCAAGACCCCGCTCCCAAGCCACCGACGCGC	•
	TGACGCTGCAGCCCTGGACCTGCTGGGGGCCTCTTCCTCGGACCCGCATGCTGACAGCGG	•
	GACTGGCAACTGGGCAGAGGTCGACCCCGGGTCCGCACAGCACCTCCCGAGACCCAGCTC	
	[C,G]	·,
	CAGCTCCCTCACTTCCGGCTCTCTGGAGGCGGGCCCGGCCAGTGCCGCCGAGGCCAGCGC	
	GGCGAGCTCCTCCCCAGCAGCGGCGGGACGGCCACACCCTGCGCGCGC	
	TGGGGTCTCCGCTCCTGCGCCCTGCGCCGCAGCCGCACCCCGACGGCGCCCCAAACG CTGTTGCGCCGCGCGCCCCGCCC	
	CCCTCGATCTCCCGTGACTTCCTCGGCCAGGCCGCCTGCGCCTCTGGGACCATGTTGCGC	(SEO TD NO:37)
	caercanier caerana representa a construir	(320 12 10.37).
1857	CAACCACGAAAAAATTAGACATCCGTGAGAGACAATGCCCTCCATGGCCCAGTTTCCAGG	
	CAGAGAGAAGCAGCTCTGGGCTGACCGCCAAGGCTCCCGGCCCGAGAGGGTCTTTAAGTGG	•
	AGTAACCAGTCTTCAAGACCCCGCTCCCAAGCCACCGACGCGCTGACGCTGCAGCCCTGG	
	ACCTGCTGGGGGCCTCTTCCTCGGACCCGCATGCTGACAGCGGGACTGGCAACTGGGCAG	•
	AGGTCGACCCCGGGTCCGCACAGCACCTCCCGAGACCCAGCTCCCAGCTCCCTCACTTCC	
	[1,G] GCTCTCTGGAGGCGGGCCCGGCCAGTGCCGCCGAGGCCAGCGCGGGGGGGG	
	CAGCGGCGGACGGCCACACCCTGCGCGCGCGCGCGCGCTCGGGTGCGGGTCTCCCCCAG	
	CGCCCTGCGCGCCGCAGCCGCACCCCGACGGCGCCCCAAACGCTGTTGCGCCGCGCGCC	
	CCGCCCAGCCCGGCCTCGCGCTGGTCCCCGGTCTCGCCCCGCAGCCCTCGATCTCCCGTGA	
	CTTCCTCGGCCAGGCCGCCTGCGCCTCTGGGACCATGTTGCGCTGGCTG	(SEQ ID NO:38)
1045	CAACCETTCCCCCCCACACCCTCTTTAACTCCACTAACCACTTCCAACACCCCCC	
	CAAGGCTCCGGCCCGAGAGGGTCTTTAAGTGGAGTAACCAGTCTTCAAGACCCCGCTCCC AAGCCACCGACGCGCTGACGCTGCAGCCCTGGACCTGCTGGGGGCCTCTTCCTCGGACCC	
	MOCCHICACOCTOHCOCTOCHOCCCTOCHOCCTOCTOCOCCCTCTTCCTCCOCHOCCC	

FIGURE 3AA

•	GCATGCTGACAGCGGGACTGGCAACTGGGCAGAGGTCGACCCCGGGTCCGCACAGCACCT	
7	CCCGAGACCCAGCTCCCAGCTCCCTCACTTCCGGCTCTCTGGAGGCGGGCCCGGCCAGTG	•
	CCGCCGAGGCCAGCGCGAGCTCCTCCCCAGCAGCGGCGGACGGCCACACCCTGCGC	
	[G,T]	
	CCGCGCGGGCTCGGGTCTCCGCTCCTGCGCCCTGCGCCCCGCAGCCGCACCCCCG	
··· * * * ······· /	ACGGCGCCCAAACGCTGTTGCGCCGCGCGCCCCAGCCCGGCCTCGCGCTGGTCCC	
	GGGACCATGTTGCGCTGGCTGCGGGACTTCGTGCCCCACCGCGGCCTGCCAGGACGCG	
	GAGCAGCCGACGCGCTACGAGACCCTCTTCCAGGCACTGGACCGCAATGGGGACGGAGTG	(SEO ID NO:39).
	OAGCAGCCGACGCGCTACGAGACCCTCTTCCAGGCACTGGGACCGCAATGGGGACCGCA	(2EG ID 140:23)
2007	GCCACCGACGCGCTGACGCTGCAGCCCTGGACCTGCTGGGGGCCTCTTCCTCGGACCCGC	•
2007.		
	. ATGCTGACAGCGGGACTGGCAACTGGGCAGAGGTCGACCCCGGGTCCGCACAGCACCTCC	
	CGAGACCCAGCTCCCAGCTCCCTCACTTCCGGCTCTCTGGAGGCGGGCCCGGCCAGTGCC	
	GCCGAGGCCAGCGCGAGCTCCTCCCCAGCAGCGGCGGACGGCCACACCCTGCGCGC	0
	CGCGCGGGCTCGGGTCTCCGCTCCTGCGCCCTGCGCGCAGCCGCACCCCCGA	
	[A,C]	
	GGCGCCCCAAACGCTGTTGCGCCGCGCGCCCCGCCCAGCCCGGCCTCGCGCTGGTCCCGG	
	TCTCGCCCCGCAGCCCTCGATCTCCCGTGACTTCCTCGGCCAGGCCGCCTGCGCCTCTGG	
	. : GACCATGTTGCGCTGGCTGCGGGACTTCGTGCTGCCCACCGCGGCCTGCCAGGACGCGGA	
	GCAGCCGACGCGCTACGAGACCCTCTTCCAGGCACTGGACCGCAATGGGGACGGAGTGGT	
	GGACATCGGCGAGCTGCAGGAGGGGCTCAGGAACCTGGGCATCCCTCTGGGCCAGGACGC	(SEO ID NO:40)
		, (52)
2769	TGGGGCCGCGACCGGCGACCCCGGTAACAGAAGTGGGTCATAATACGAAAGTCTACTGGT	- X Y
27.03	ATTTGTCCAGATAAAATGAGTGTTGTGGACACTCTGGCCCACGGGCACTGTTAAATTTTT	
	AAGACACTTTTGTCCTGAATCCATCCCAGGTTCTTTGTTTTCTGTTTTAATACCTTGCAG	
*,	ACATGTAATCCGTTTTTAGCTGTCAGACTTCAGTGGGTCCCAAGTTTTGTATAAAGGCGCA	•
	CACATTCGATCTCTTTCGAAGCTGCTTTGTTACAGCAGCTATGTGTATTGTCTACTGTTT	
	[C,G]	•
$x_{i} = x_{i} \cdot x_{i$	AAAACTGTTTGAAAACCAATCGCGTGTTTCCCCCACTTCCTGTTGAGAAGGAATGGCGGC	
	ATTCCATTGTTTAAGACATTCCTAGGTTAATGCCCTAGGTACATAAATTGATCTGAAGGG	
	TTGACTTGACCTGCGACTGAGCAATTTCATTTTCTCTGAGTCATCTTAACTGTGCCCCTG	
	AACTTCTGCCCCTTTAGTAGGGTGGAGATATGTGGAACTTCTCCAACCCTGTTGAAGCGT	
	TCCCTGACACTGGCATTCTCTTATCCAAAGAGGGAAAGTGATTAGGTTACTATGAGGGCC	(SEQ ID NO:41)
3664	GCTGATTGTCCCAGAAATGGCCCAGTTGGAGTTCCCCACCATGTCCAATCATTGGCTGGA	
	AGCAGCCCAGGAAAGGGACGACCTTGCTGCAGTGCATCAGCAGATGCCAGGGTTAGAGGC	
	TAGAGAGTGGAAGTCAACTGTGTTCCTCACAGTAGGTGCCTTTGAAGGGAGATCTCAGTG	
	GTACAACTCCATGGTCCCTACAATATACAAAAGCTCTTTGGAGTGCTCAATGATTTTTAA	
	GATTGTAAAGGGATCCTGAGATCAAAAAGCTTGAGAATTGCTGCTGTATCACCATTTTTA	
	[C,T]	
	GTAACTGCATCATATTCTGTTATATGTTTGTGTCATAGTATATGTTACCAATTCTTTTTA	
	. AATCACCTTTACTTCATAGTTTAAAAACGATTGTAAGTGAAATTGCAATGGATGT.	
	CCTTTGTATTCATTTTCTCATTCTGGTCCAGTTACTTTCGTAGGATAAATTTTGAGGAGT	
	GGACATTGCTGAGGTCTGAAGGTAACACACATTTTAAACTGGGATACGTATTGCCTTTCGG	
		(CEO TD 10:42)
7	AAACCTTAGACCCATTTTCACTCTTTTGACTGACAGTGCTTGCT	(SEQ ID NO:42)
2027	GAAGGGAGATCTCAGTGGTACAACTCCATGGTCCCTACAATATACAAAAGCTCTTTGGAG	
3027		*
	TGCTCAATGATTTTTAAGATTGTAAAGGGATCCTGAGATCAAAAAGCTTGAGAATTGCTG	
	CTGTATCACCATTTTTACGTAACTGCATCATATTCTGTTATATGTTTGTGTCATAGTATA	
	TGTTACCAATTCTTTTTAAATCACCTTTTACTTTATTGATAGTTTAAAAACGATTGTAAG	
	TGAAATTGCAATGGATGTCCTTTGTATTCATTTTCTCATTCTGGTCCAGTTACTTTCGTA	
	GATAAATTTTGAGGAGTGGACATTGCTGAGTCTGAAGGTAACACACATTTTAAACTGGGA	
	TACGTATTGCCTTTCGGAAACCTTAGACCCATTTTCACTCTTTTGACTGAC	4
	TTCTCCACATCCTCGCTCATTCAGGGTATCAGTCTTTGTAAAGTCTCCTATTCTGCAGGT	
	ACAGGGTAATTTATAAAGAAAAGACATTTATTTAGCTCACAGTTCCGCAGGCTGGGAAGT.	(SEO TD NO.43)
	The second section of the se	. (324 160113).

		•
4113	CAGTTACTTTCGTAGGATAAATTTTGAGGAGTGGACATTGCTGAGGTCTGAAGGTAACACA	
T	CATTITAAACTGGGATACGTATTGCCTTTCGGAAACCTTAGACCCCATTTTCACTCTTTTG	
	ACTGACAGTGCTTGCTTCTCCACATCCTCGCTCATTCAGGGTATCAGTCTTTGTAAAGTC	
· · · · · · · · · · · · · · · · · · ·	TCCTATTCTGCAGGTGAAATTCCTTTTCATTTCCTGTCTTAGTCCATTTAGTGTTGCTAT	
erika di kacamatan di kacamatan Kacamatan di kacamatan di kacama	AGTGGAATATCTGAGACAGGGTAATTTATAAAGAAAAGA	
	[C,T]	
	GCAGGCTGGGAAGTTTAAGAAGCGTGGTGCTGGCATCTGCTGGACTCCTGGGGAGGGCTT	
	TCCTGCTGTGTCACAACATGGTGGAAAGTCAAAGTGGAAGTGGACATGTGTGAAGAAGCA	
	AAATCCGAGGGTGTCCTGGCTTTATAGCAACCCAGCCTCGAGGGAACTGATCCATTACT	
	GAGGGAACTAATTCAGTCTCATGAGAGAGAGAACTCACTACTACTGCAAGAATGACACC	
	AAGCCATTCATGAGGGATCTGCCTCCGTAACCCTGACACCTCCTGCTAGGTCCCTCCTCC	(SEQ ID NO:44)
	AMOCONT TONIONOMICTOCCTCCOTANCCCTOCTACTACOTCCTCCTCC	(3EQ ID 140.44)
4337		j
4337	CATTTAGTGTTGCTATAGTGGAATATCTGAGACAGGGTAATTTATAAAGAAAAGACATTT	
	ATTTAGCTCACAGTTCCGCAGGCTGGGAAGTTTAAGAAGCGTGGTGCTGGCATCTGCTGG	
	ACTCCTGGGGAGGGCTTTCCTGCTGTGTCACAACATGGTGGAAAGTCAAAGTGGAAGTGG	•
	ACATGTGTGAAGAAGCAAAATCCGAGGGGTGTCCTGGCTTTATAGCAACCCAGCCTCGAG	•
	GGAACTGATCCATTACTGAGGGAACTAATTCAGTCTCATGAGAGAGA	
	[A,G]	
	CTGCAAGAATGACACCAAGCCATTCATGAGGGATCTGCCT.CCGTAACCCTGACACCTCCT	• · ·
	GCTAGGTCCCTCCCAACACGGCCACATCAGGGATCAGACTTCAACATGAGTTTTTGT	~
	GGGGACAAACAAAACGTAGCACTTGCTTTGCCTTTTGGTTCTATTCACATCCTCCACAGG	
	ATTGCATTATGCCTACCCATTTGGTGAGGGCAGTCTTCTTTAATTGGTTTACTGATTCAA	
	ATGCTACCCTCCCAGAGACATCCTCACAGACACCCCAGAAATCATGTTTTACCAGTT	(CEO TO NO. 4E)
	A TOCTACCO TCCTCAGAGACATCCTCACAGACACACCCAGAAATCATGTTTTACCAGTT.	(SEQ ID NO:45)
4473	TTCTTCTCTCACAACATCTCCAAACTCAAACTCCAACTCCACATCTCCAACAA	
44/5	TTCCTGCTGTGTCACAACATGGTGGAAAGTCAAAGTGGAAGTGGACATGTGTGAAGAAGC	
	AAAATCCGAGGGTGTCCTGGCTTTATAGCAACCCAGCCTCGAGGGAACTGATCCATTAC	
	TGAGGGAACTAATTCAGTCTCATGAGAGAGAGAACTCACTC	
	CAAGCCATTCATGAGGGATCTGCCTCCGTAACCCTGACACCTCCTGCTAGGTCCCTCCTC	•
	CCAACACGGCCACATCAGGGATCAGACTTCAACATGAGTTTTTTGTGGGGACAAACAA	. *
	[G,A]	.=
	TAGCACTTGCTTTGCCTTTTGGTTCTATTCACATCCTCCACAGGATTGCATTATGCCTAC	
	CCATTTGGTGAGGGCAGTCTTCTTTAATTGGTTTACTGATTCAAATGCTACCCTCCTCCA	
	GAGACATCCTCACAGACACACCCAGAAATCATGTTTTACCAGTTATCTGGGCATCCCTTA	_
	GTCCAGACGAGTTGATACATAAAATTAACCATCACACATGGGATAGAATTAGGATTACAC	
	AGTCAACCTTTATGGGAGAAAATTTCAGAGGCATGTCAGGGGTTTATGTAATGTCAAGGA	(SEO TD NO.46)
	AGICACCI I ATGGGAGAAAT I I CAGAGGCATGT CAGGGGT I TATGTAATGT CAAGGA	(SEQ ID NO.40).
6455	TOTAL ATTOCATE ACTOCA ATCACCATITICA CTCCATE A ACTA ATTCCTCTCTA ACA	
0433	TGTTTATTGCATTGAGTGGAATCAGGATTTCACTCCATTAAGTAATTCCTCTGTTAACAA	
	AGAGGGTTCATTTCATTTATTTCATTAATATTGCTTTTTTTT	
	AGAATCTTGCTCTATCACCAAGGCTGGAGTGCAGTGGTGCGATCTCGGCTCACTGCAGCC	
	TCTGCTTCCTGGATTCAAGCGATTCTTGTGCCTCAGCCTCCCAAGCAGCTGAGATTACAG	
	GCACATGCCACCACCTGGTTAACTTTTGTATTTTCTAGTAGAGATGGGATTTTGCCAT	
·	[T,G]	
	TTGGTCAGGCTGGTCTTGAATTCCTGGCCTCTAGTGATCTGCCTGC	
	GTGCTAAGATTACAGGCATGAGCTACCATGGCCAGCCCATTTCCTTAATATTTTAATTGT	•
	CAGACATGTTATGGTTTCTGGCACAATATTAAGAAGACATGATATGAAATCACAGGGTGA	
' _	ATTTTAGGGCATCACAACAGAAAGATTATGGTATAAGAAAAACAATGGAATTCCAACTAC	
	ATTICTGTCAAATGTTCTAAAATATATAAAATCTGTATCTTTTGTGTTCTCCTGATTT	(SEO TD NO:47)
	Attretatomiatici Amininamicial Alci Triala i ici ci	(3EQ ID 100.47)
6533	TTATTTCATTAATATTGCTTTTTTTTTTTTTTTTTTTTT	
0333		*
	CAAGGCTGGAGTGCAGTCGCATCTCGGCTCACTGCAGCCTCTCCTGGATTCAA	
	GCGATTCTTGTGCCTCAGCCTCCCAAGCAGCTGAGATTACAGGCACATGCCACCACACCT	
	GGTTAACTTTTGTATTTTCTAGTAGAGATGGGATTTTGCCATGTTGGTCAGGCTGGTCTT	
	GAATTCCTGGCCTCTAGTGATCTGCCTGCCTCTGCAAAGTGCTAAGATTACAGGC	•
	[T,G,A]	
	TGAGCTACCATGGCCAGCCCATTTCCTTAATATTTTAATTGTCAGACATGTTATGGTTTC	
	TGGCACAATATTAAGAAGACATGATATGAAATCACAGGGTGAATTTTAGGGCATCACAAC	
	AGAAAGATTATGGTATAAGAAAAACAATGGAATTCCAACTACATTTCTGTCAAATGTTCT	
	AAAATATATAAAATCTGTATCTTTTGTGTTCTCTCCTGATTTATATTCTAAATTTGATGT	
		1

•	TATCCTTCTCTGCAGAAATAAAGTGTCTGAAAGAATGAAAAAAAA	(SEQ ID NO:48)
6919		
	AATGGAATTCCAACTACATTTCTGTCAAATGTTCTAAAATATATAAAATCTGTATCTTTT	
يرادرون والمسعد المعاد والماسا	GTGTTCTCTCCTGATTTATATTCTAAATTTGATGTTATCCTTCTCTGCAGAAATAAAGTG	
	TCTGAAAGAATGAAAAAATGGAAGAATTCTTTAGTAAGGTATAAAATACCCTTTCTATC	
	. TTTGTAGCATTCTAAGCCTTTTGTCACCTTTCCAAACTCCCAACATGCCATATTCCCTGA	
	. [G,C]	
	TAGGCCACAGCCATGTACATTGATCCCTTTATTTTCTTCTCTCTC	
	ATTCCCCCTTCTCTGCCTGGTATATGATTGCCCATTGTTTAAGGCCCCAACTCACCTTTA	
	TAATCTTCCTAGCCCACTTTCTTTATCGGTATTCCAGAAAAAACAAAAGAAGCTTCCACA	•
	AGACAACATTCTGTAATACACTGCTTAACTTCTTTTGACCCTGCTGAGTTCAAAAATCTT	
	ATCTTTTTAAGGATTGAATGGAGTCCACCAAGGTATCTATATTTGACAGGATTTATGAAA	(SEO TD NO.49)
• • • • • • •	, AICITITIAGGATIGATIGGAGTCACCAGGATATCIAIATTGACAGGATTTATGAA,	(320 10.43)
7305	GATTGCCCATTGTTTAAGGCCCCAACTCACCTTTATAATCTTCCTAGCCCACTTTCTTT	•
7303	TCGGTATTCCAGAAAAAACAAAAGAAGCTTCCACAAGACAACATTCTGTAATACACTGCT	
	TAACTTCTTTTGACCCTGCTGAGTTCAAAAATCTTATCTTTTTAAGGATTGAATGGAGTC	
. *	CACCAAGGTATCTATATTTGACAGGATTTATGAAAACAAAAGGATTTGTTGAGAAAGTTT	•
	GAAGCCTAACTCTGAAACGTGGATCATAGTGTTTACTACACATTAACTGTTTTAGTGGAT	·
	[G,A]	.0.
	TAATAGTTATTATTATAGGCTGTGGAATCAGAACAGGGTTCAAATGTTTTCACCGCTTGC	
	TAGACTGTGGCCTTGGGCATGTTATTTAATGCCTGGAGGCCTCAAATGTTAACTAGGAAT	
	GGTAAGACCTACCCAGTAACTTAGCATAAATAGTAAATTCATTC	
	CAGTGCCAGACATTGTTTAATGAACTGGGGATATAGTGGTGAACAACACTGACAGCGTTC	
	TTCATTGTATTCTCAAAACCCTCCCTATAGTAAGTAGGTCTGTGTGTG	(SEO ID NO:50)
		**
7340	TAATCTTCCTAGCCCACTTTCTTTATCGGTATTCCAGAAAAAACAAAAGAAGCTTCCACA	•
	AGACAACATTCTGTAATACACTGCTTAACTTCTTTTGACCCTGCTGAGTTCAAAAATCTT	
	ATCTTTTTAAGGATTGAATGGAGTCCACCAAGGTATCTATATTTGACAGGATTTATGAAA	
	ACAAAAGGATTTGTTGAGAAAGTTTGAAGCCTAACTCTGAAACGTGGATCATAGTGTTTA	
	CTACACATTAACTGTTTTTAGTGGATGTAATAGTTATTATTATAGGCTGTGGAATCAGAAC	
	[A,G]	
	GGGTTCAAATGTTTTCACCGCTTGCTAGACTGTGGCCCTTGGGCATGTTATTTAATGCCTG	•
	GAGGCCTCAAATGTTAACTAGGAATGGTAAGACCTACCCAGTAACTTAGCATAAATAGTA	•
	AATTCATTCATTTAATGTTTTCAAACAGTGCCAGACATTGTTTAATGAACTGGGGATATA	
. ,	GTGGTGAACAACACTGACAGCGTTCTTCATTGTATTCTCAAAACCCTCCCT	(a=a == 110 = F1)
	AGGTCTGTGTGTGTGTAGGTGCATGGGGAATAAAAAATAATAAGCAAATAATGAACAG	(SEQ ID NO:51)
7466	TTAACCATTCAATCCACTCCACCAACCTATCTATATTTCACACCATTTATCAAAAAA	
/400	TTAAGGATTGAATGGAGTCCACCAAGGTATCTATATTTGACAGGATTTATGAAAACAAAA	e e
	GGATTTGTTGAGAAAGTTTGAAGCCTAACTCTGAAACGTGGATCATAGTGTTTACTACAC	*
	ATTAACTGTTTTAGTGGATGTAATAGTTATTATTATATAGGCTGTGGAATCAGAACAGGGTT	
	CAAATGTTTTCACCGCTTGCTAGACTGTGGCCTTGGGCATGTTATTTAATGCCTGGAGGC	
	CTCAAATGTTAACTAGGAATGGTAAGACCTACCCAGTAACTTAGCATAAATAGTAAATTC	*
	[A,G]	
	TTCATTTAATGTTTTCAAACAGTGCCAGACATTGTTTAATGAACTGGGGATATAGTGGTG	
	AACAACACTGACAGCGTTCTTCATTGTATTCTCAAAACCCTCCCT	
	GTGTGTGTGTGGGGCATGGGGAATAAAAAATAATAAGCAAATAATGAACAGGGTAAT	
	TTCAAAAAGCAGAAAGAGCTATTCAACAAAACTACCTGCCTTTTATTAGATGAAACTCTC	
	AACTCTATGGTTTGTTCTCTCCTGTCAATTCTGTTAAATGCTGTCAGCCTGTTTTCCTTA	(SEQ ID NO:52)
7589	AACTGTTTTAGTGGATGTAATAGTTATTATTATTAGGCTGTGGAATCAGAACAGGGTTCAA	•
	ATGTTTTCACCGCTTGCTAGACTGTGGCCTTGGGCATGTTATTTAATGCCTGGAGGCCTC	
	AAATGTTAACTAGGAATGGTAAGACCTACCCAGTAACTTAGCATAAATAGTAAATTCATT	
	CATTTAATGTTTTCAAACAGTGCCAGACATTGTTTAATGAACTGGGGATATAGTGGTGAA	
	CAACACTGACAGCGTTCTTCATTGTATTCTCAAAACCCTCCCT	
	[G,C]	•
· · · · · · ·	TGTGTGTGTAGGTGCATGGGGAATAAAAAATAATAAGCAAATAATGAACAGGGTAATTTC	•
		*
	AAAAAGCAGAAAGAGCTATTCAACAAAACTACCTGCCTTTTATTAGATGAAACTCTCAAC	

TCTATGGTTTGTTCTCTCTGTCAATTCTGTTAAATGCTGTCAGCCTGTTTTCCTTATCA CCCTGGCCACGACTTCTGTCTTTTCTGCTTGGTCCTGTAGACTCTAACCCAAGGCTCATT (SEQ ID NO:53) 7810 CTGGGGATATAGTGGTGAACAACACTGACAGCGTTCTTCATTGTATTCTCAAAACCCTCC CTATAGTAAGTAGGTCTGTGTGTGTGTGTGTGCATGGGGAATAAAAAATAATAAGCAA ATAATGAACAGGGTAATTTCAAAAAGCAGAAAGAGCTATTCAACAAAACTACCTGCCTTT TATTAGATGAAACTCTCAACTCTATGGTTTGTTCTCTCCTGTCAATTCTGTTAAATGCTG TCAGCCTGTTTTCCTTATCACCCTGGCCACGACTTCTGTCTTTTCTGCTTGGTCCTGTAG [A,C]. CTCTAACCCAAGGCTCATTCTCTGCCTGGCTATCTGCCTTCTGTGGCTCTTTGCCACTAC CTACATTTTCTGTGTTGCACAGGGAAGGACCATTCCCTGTGGACCATAAAATTCTCTTTT TGAAAGAATTCATTCTTGATTGGGCCACAGCACATCTTGTGAAACAGCATTAGACATTTG ... CTAACCATGGTGCAACCTCCTCCCAGAGGGAAACCTATGAGTATTTCAAGGACATGTGAT . (SEQ ID NO:54). TTAAACGAATTATTGTAGAAACAGAAAAACAAATACTGTGTTCTCATTTACAGGGGGAGC TAAACCTTGGGTAAATGGGGCATAAAGATGGGAACAATAGACACTAGGGACTCCAAAAGG . . . GGGGAGGAGGGAGGGCAAGGGCTGGAAAGCTTCCTACTGGGTACTTTGTTCACAAC CTGGGTGATGGCACGATTAGGAGCTCAAACCCCAGTATCACACAGTATACCCCTTGTAACA AGCTGATGGTGTAACCCCTGAATCTACAATAAAATTATTTTATTTTAAAAAAATCATTATA . [G,A] GCAGGCCGCCACCGCCAGTCACTTATGCTGCAATAGCCCATGTCCCAACATTCCCAACCT. ACTTCTCTCCAAAAGAGAAGCTATACTTTCAGATGGCCCTGTGCTGGGTTCTCCCTGGAA GTTTCTGGGGAAAGGGGCTTGAGTTGGCCCGACTGGACTCTTCCTGGAGTGGGAGCCGGG (SEQ ID NO:55)9503 CATGTCCCAACATTCCCAACCTACTTCTCTCCAAAAGAGAAGCTATACTTTCAGATGGCC CTGTGCTGGGTTCTCCCTGGAAGTTTCTGGGGAAAGGGGGCTTGAGTTGCCCCCGACTGGAC TCTCCCAGCGCAGCCCAGAGTGCGGTCCCACGCAGGTCCCGGGTCCTGCGCGCTCGCGCCC TTTGCGCTGAAGCCGTTAGGATGAGCCCTCTCCTTCCAGAGCTTTAACCGATGAAGGTGC [A,T] TTGTGTTTGGCGCCCCTGAGGAGGATGCTGTCTTAGGCCTCTTCCCACTGGACGTGTGTG GGAGCTGCGAGGAGACATCCTCGATGGACTCCCTCTACGGAGATCTCTTTTGGTACCTG GACTATAACAAGGATGGGACCTTGGACATTTTTTGAGCTTCAGGAAGGCCTGGAGGATGTA GGGGCCATTCAATCTCTAGAGGAAGCGAAGGTGGGTCTCACTGGGGCTGTAATCAGAGAG (SEQ ID NO:56): ACCCCGCTGGGGCTCACTCAGGCCGCGGAGCTGCGAGGGAGACATCCTCGATGGACTCCC TCTACGGAGATCTCTTTTGGTACCTGGACTATAACAAGGATGGGACCTTGGACATTTTTG AGCTTCAGGAAGGCCTGGAGGATGTAGGGGCCATTCAATCTCTAGAGGAAGCGAAGGTGG GTCTCACTGGGGCTGTAATCAGAGAGACGTTGGGGCTGGGAGCCCTGGAGAGGCATTGGG CAGAGAGGGCAAAATTTACATGTTGTCAAGCTTGACCTGGGCCCACTGCAGTGTTCAGGT GTTGACCAGCGTTACCGTTTATTAAGAATAACAACACAGCTAACACATTTCTCAAGTATT TTTCTCCGTTTTCTCCTTGGCTGTAGTAAAATCTCCAACTTCAGATTGCTCTCAAGATGT TGGCTACATACAGCCTTGTCTTAGGAGTCACCTTGTTCAATGTGCTCACCTGTCATTAGT. CACCCAGAGGGGCGTCTAGGCTAAAGATGCGCCCTCCCCAGTTCAGAGAACTGGAATAAT CACTCTACGTGTATTTGGGAGTGGGGTGGTTGGTAATTTTCTGATGTTATGTTTTGG (SEQ ID NO:57) GTGGTTGACCAGCGTTTACCGTTTATTAAGAATAACAACACAGCTAACACATTTCTCAAGT ATTTTTCTCCGTTTTCTCCTTGGCTGTAGTAAAATCTCCAACTTCAGATTGCTCTCAAGA TGTTGGCTACATACAGCCTTGTCTTAGGAGTCACCTTGTTCAATGTGCTCACCTGTCATT AGTCACCCAGAGGGGCGTCTAGGCTAAAGATGCGCCCTCCCCAGTTCAGAGAACTGGAAT AATCACTCTACGTGTATTTGGGAGTGGGGTGGTGATTGGAAATTTTCTGATGTTATGTTT [T,C]

	GGTTTCTGTTCCTGGAAGGGGGCAGTGGAAGTGGCTTTTACTCTCGGGTTTCACTAGTGC	
	TGAGGTTTCCTCATAATATGCCTTAATTGATAGACCCTAGTTATCAGTACCGAGCTTAGG	
	CTAACCCTTCTCTCCCCAGAAGGCTAACCTACAGGCTCCTTCTCAGCATGTTGTGCTTC	
	GTACATACTCCTATTGCAGTATTTCCAAGTCATTTTTCATTTGGAATTTATTGTATA	(050 50 110 50)
a tini this.	TAATAATTACTTTATAAGTATATTTGCTCTTTGGATGTTTGACCCGGTAGACTGGGAGAT	(SEQ_ID_NO:58)
		· · · · · · · · · · · · · · · ·
12327	GTCATGTTATTTAATGCCTGGAGGCCTCAAATGTTAACTAGGTAATGGTAAGACCTACCC	•
	AGTAACTTAGCATAAATAGTAAATTCATTCATTTAATGTTTTCAAACAGTGCCAGACATT	
	GTTTAATGAACTGGGGATATAGTGGTGAACAACACTGACAGCGTTCTTCATTGTATTCTC	
	AAAACCCTCCCTATAGTAAGTAGGTCTGTGTGTGTGTGTG	
	TAATAAGCAAATAATGAACAATAAAATTATTTTATTTAAAAAAAA	
	[C,G,A]	
	TTGTCGTGTTAAGATACAAAAGCAATAACTTTTTATTGTGAAAATAGTCTGTTTTTGAAC	
	AATATATTGTTTTTTCCTGTGAAAGTTGAGAAACTAAATATACGAAGAGATAATG	
	GTCAGACCATAAATAAAAATAGAACTTTGACTCAAAATTTACAGCAGTCTGCCCAGAAAA	
	CCAGCCCTTTATCTAAAATAAACAGACCAGGAAACCAGCCTGTTATGTCAGACTTATAGG	
		(CEO TO MOVEO)
	AAGTCAGGTTGCTATCTCTAGAGACAATACACAAAGCTATGCAATAACTGCTGTAACAGC	(SEQ ID NO:59)
40-10		
13749	TACAGGCGTGAGCCACCATGCGCCCAGCCATAGACTATATTTTTTGATCTGATAACTGG	<i>J</i> *;
	TTCAGCTACTAAGTGACTAACAGGCAAGTAGCATCTATAGTGTGGATATGCTGGACAAAA	. 7
	GGACATTCACCTCCTGGGCAGGATGGCACAGAATGTTGAGAGATTTTATCATGCTACTCA	•
	GAATGGTGTGCAATTTAAAACTTATGAGTTGTTTGTTTCTGGAGTTTTCCATTTAATAGT	
	·	
• • • • • •	TCAGACCATGGATTGACCGCAGGTAACTGAAACTGTGGAGAGTGAAACTGTGGATAAGGG	•
	[G,A]	•
. وخصيصت	GGACTATTGTATTGTTAAGTCAGACTCATTAGGCAATCATAACTCTTGATTTGCCATCAG	-X-
	AAATGCTGCAGAAATATGGGTTAAAAAAAACTGTTCAAAAAATAGGGTCAGGGATGTCCTT	
	TAACTTGTTACTTCCAAAATGTTAGTGAAAACTGTGGCCCCAAAGAGTGAAAGGAACAAA	
	TGACTAAGAGAAAATCTTGTTTTCAGGATGACAGATTAAAAAAGAAGCAACTTGCTGAAA	
	CACTGAAAATCTCTCCACTTGTAAGATAACACAAAACTGGCTAAAACTGGTTGGAATGAA	(SEQ ID NO:60)
	OCIONANICICIONEI I I I I I I I I I I I I I I I I I I	(3EQ ID 100.00)
14150	ATACCTCA CCCATCTCCTCA A CTTTTA CTCCA A A ATCTTA CTCA A A ATCTTA CTCA CA A A ATCTTA CTCA A A A	
14150		•
	CAAAGAGTGAAAGGAACAAATGACTAAGAGAAAATCTTGTTTTCAGGATGACAGATTAAA	•
	AAAGAAGCAACTTGCTGAAACACTGAAAATCTCTCCACTTGTAAGATAACACAAAACTGG	+#
	CTAAAACTGGTTGGAATGAATATGGCCAACTCAAGTCTGCACAGAACTAACT	•
	TTACAGCCCAAATTTCCACCACATATTTTATACTAACTCCCCCGGATTTTCACACATGA.	•
	[T,C]	
,	CTGTGAGGTAGCATGAAGAGGTAACTATGCATGCCTAAGGACTTGGGAGACCTCCCCATT	•
		**
	TCCTTCCACCAATCACCCACTAATCCCAGAATCCGCCCCCAAACCTTTTCTAATAACTAC	
	CTTAAAGCCAGCATAGGGAGACAGATTTGAGCTGGACTCCTGTCTTCTTGTGGGTCACCT	
	TGCAATAAAAAGCTTTTCTTTTCTCAACACCTGGTATTATAGTATTGACTTCTAGTTCAT	· ·
	CGGGCAGCAAGCCCCTTTTGGTCGGTGACTATTCTTGTTCGCTGATATTTCCATTGGCCA	(SEO ID NO:61)
	(
14529	** ACTAATCCCAGAATCCGCCCCAAACCTTTTCTAATAACTACCTTAAAGCCAGCATAGGG	
<u> </u>	AGACAGATTTGAGCTGGACTCCTGTCTTCTTGTGGGTCACCTTGCAATAAAAAGCTTTTC	
• • • • • • • •		
• • • • • •	TTTTCTCAACACCTGGTATTATAGTATTGACTTCTAGTTCATCGGGCAGCAAGCCCCTTT	•
	TGGTCGGTGACTATTCTTGTTCGCTGATATTTCCATTGGCCAAAATATAAACCTCTTAGA	
	TGAAACTTCAGTACGTAAATGGCGCCACAGAATGCTGTGACATTTTTCTCTTGGATTATA	
	[G,A]	
	CAGGTTACTTTACTGAATACCGTAGGCAGTTATAACACACTAAGTATTTGTGTATCTAAA	
	CATAGAAAAGATACAGTAAAAATATGGTAATTTTTTTTCAACTTTTAGTTGAGATTTGGAG	
	GGTATGTGCACATTTGTTACAAGGGTATATTGCATGATGCTGAGGTTTGGGGTACAATTG	
	AACCCTGTCACCCAGGTAGTGAGCATAGTACCCAATCGATAATTTTTCAACCCTTGTCCA	
	. TTCCCTCCCCGTTCTTGTAGTCCCCAGTTTCTGCTTTTCCCATCTTTATATCCGTGTGCA .	(SEQ ID NO:62)
	**	
14653	CTCAACACCTGGTATTATAGTATTGACTTCTAGTTCATCGGGCAGCAGCCCCTTTTGGT	•
	CGGTGACTATTCTTGTTCGCTGATATTTCCATTGGCCAAAATATAAACCTCTTAGATGAA	
	ACTTCAGTACGTAAATGGCGCCACAGAATGCTGTGACATTTTTCTCTTGGATTATAGCAG	
	GTTACTTTACTGAATACCGTAGGCAGTTATAACACACTAAGTATTTGTGTATCTAAACAT	

		AGAAAAGATACAGTAAAAATATGGTAATTTTTTTCAACTTTTAGTTGAGATTTGGAGGGT.			
		[G,A]			
		TGTGCACATTTGTTACAAGGGTATATTGCATGATGCTGAGGTTTGGGGTACAATTGAACC			
		CTGTCACCCAGGTAGTGAGCATAGTACCCAATCGATAATTTTTCAACCCTTGTCCATTCC		1	
		CTCCCCGTTCTTGTAGTCCCCAGTTTCTGCTTTTCCCATCTTTATATCCGTGTGCACCCC			
-		ATGTTTTGCTCCCATGTGTATGTGAGAACTTGTGGTGTTTGGTTTTCTATTTCTGCGTTG	• • • • • • • • • • • • • • • • • • • •		
		ATTCGCTTAGGATAATGGCCTTCAGCTGCATCCATGTTGCTGCAGAGGACGTGATTTTAT	(SFO	TD NO:6	23)
		ATTCCTTACCATATIOCCTTCACTCCATCTTCCTCCACCATCACTCATTTTAT	. (JLQ	ייייו עד	JJJ.
	15871	AGGAGTTTATCAATTTTATTAGTCTTTTCAAAGAACCATCTTTTGGCTTTGTTAATCCTC			
	13071	CCAATGGTGTGTTTCTCTCATTACTTTTTGCTCTTTATTTCCTTCAACTTCTTTTTT			
	• • • • • • • • •	GCTTAATTTTAAAATAATTTCTTGAGATTGAGATAAGCCTCAATGATGGGTCACCGATTT			
		CCAGTCTTTCTTCTAATTATGCATTTTAAACCAGAAATCTTTCTCTAAGTGTAGC			
		TTTAGTTGCAGCTCACAAGTTTCAGATCTGTCTCTCAGTCTGGAGGTTGGAGATCTGACC			
				•	
		[A,G]			
		TGACCATGAAACCATCCAGTCACAATGTGGCATTATTTTTTTAATTTTTTTT			
-		TGAGATAGAGTTTCACTCTTATTGCCTAGGCTGGTGTGCAATGGTGCGATCTCGGCTCAC			
		AGCAACCTCCACGTTCAAGCGATTCTTTTGCCTCAGCCTCCCAAGTAGCTGGG			^~
		ATTACAGGCATGCGCCACCAACTAATTTTGTATTTTTAGTAGAGATGGGGGTTC			
	124	TCCATGTTGGTCAGGTTGGTCTTGAACT.CCCGACCT.CAGGTGATCCGCCCACCTCAGCCT.	. (SEQ	ID NO:6	54).
	19244	GTGGCATTATTGGTTCATATTTTTATTTTTTAGACTTCCTTAATGCAAAACATATACAGT		-	
		TGATCCTCATTATTTGGGGATTCTGTATTTGCAAATTTGCCTACTCAATAAAATTTATCC	•		
		CCAAAGTAACCCCAAAATATATACTCACAGTACTTTCCCAGGCATTCATGGACATGCACA		*	
		GAGCAGTGAAAAACTTGAGTTGCTCAGCATGTACATTCCTAGCTAG)	
		ACTCTGCCTTCTTGTTTCAGCTCTCATACTATTAACTAGCAAGTATCCCTTTCAAGGTCT.	13	•	
		[G,A]	•		
		TTTTGTGCCAGTTTTTGCATTTTTGTATTTTTGTTGGTAATTTCCTTTTTAAAATGTTCC			
		CCAAAGGTAGTGCTGAAGTGCTGTCTAGTGTTCCTAAGTGCAAGAAAGCCATAGCATGCC	ν.		
		TTATGGAGAAAATATATGCGTTGGATAAGCTTTGCCCCAAATTCAATGTTAGTGAATCAA		•	
		CAGCACACATTAAATGAGGTGCCTTCAAACAGAAACAGACATAAGACATGGTTATGTATT.		,	
		AATCAGTTGATGAAAGTGTTGTAATCAGAGGCTCACAGGAACCTAACCCTGTTTTTTCCTG	(SEO	TD NO-6	55)
	1	ANTO ATTO ATTO ATTO ATTO ATTO ATTO ATTO	. (SEQ	ш то.с)J).
	19387	CTCACAGTACTTTCCCAGGCATTCATGGACATGCACAGAGCAGTGAAAAACTTGAGTTGC		1	-
	19307	TCAGCATGTACATTCCTAGCTAGTAGAATAAGGCAATACTCTGCCTTCTTGTTTCAGCTC		•	
		TCATACTATTAACTAGCAAGTATCCCTTTCAAGGTCTATTTTGTGCCAGTTTTTTGCATTT		•	
		TTOTAL TAXABLE COLOR ATTECCTOR A ATTECCT A A ATCOMP COLOR A ACCORDANCE COLOR A	• ;	•	
				,	
		GTCTAGTGTTCCTAAGTGCAAGAAAGCCATAGCATGCCTTATGGAGAAAATATATGCGTT			
		[T,G]			
		GATAAGCTTTGCCCCAAATTCAATGTTAGTGAATCAACAGCACACATTAAATGAGGTGCC			
		TTCAAACAGAAACAGACATAAGACATGGTTATGTATTAATCAGTTGATGAAAGTGTTGTA			
		ATCAGAGGCTCACAGGAACCTAACCCTGTTTTTCCTGTAGGAACAATGGTTTGGTATTTG			
		CTAATTCAGTGTTTGCAATGAATATAGAACTTTATGGAAGATGATTGCTGTGAATAATGA			
		GAATTAACCATATCTCTTTAAGAGTGCATTTCTAAAGGAGAATATTCAGAAGGGTATTTG	: (SEQ	ID NO:6	ob)
	40447				1
	19447.	TCAGCATGTACATTCCTAGCTAGTAGAATAAGGCAATACTCTGCCTTCTTGTTTCAGCTC			
		TCATACTATTAACTAGCAAGTATCCCTTTCAAGGTCTATTTTGTGCCAGTTTTTGCATTT			•
		TTGTATTTTTGTTGGTAATTTCCTTTTTAAAATGTTCCCCAAAGGTAGTGCTGAAGTGCT		. ,	
		GTCTAGTGTTCCTAAGTGCAAGAAAGCCATAGCATGCCTTATGGAGAAAATATATGCGTT		·	
		GGATAAGCTTTGCCCCAAATTCAATGTTAGTGAATCAACAGCACACATTAAATGAGGTGC			
		[C,G]		•	
		TTCAAACAGAAACAGACATAAGACATGGTTATGTATTAATCAGTTGATGAAAGTGTTGTA			
		ATCAGAGGCTCACAGGAACCTAACCCTGTTTTTCCTGTAGGAACAATGGTTTGGTATTTG			
		CTAATTCAGTGTTTGCAATGAATATAGAACTTTATGGAAGATGATTGCTGTGAATAATGA			
		GAATTAACCATATCTCTTTAAGAGTGCATTTCTAAAGGAGAATATTCAGAAGGGTATTTG			
		CATAATTTCTTTACTAACAGATGCTGCCTCTCACTGTCCTTACATGGTCCAGATTCTCAT	(SFO	ID NO:6	57)
			(324		J.
	20076	TCTCTCAGAATCCTGTCATCTCCTCCAGGGTCCTTTCTCCAAGAAAGTCTATCCTTTCAC		•	
	_00.0	CACTAACAGTAATTTTGGTCTTCCTCCTTTTTCTGGAGAAGTCAGCTGTTTATGCTGCTTC			
		- Controlled And I have the controlled and the controlled the cont			

AGCACCAGACCCTCTCTTACTTTGTTTTGTTTCATTCTTTTTCATGTACAGTAGTCTTAG GATTCTCATGAGCCTGTGAGCTGCTAGAAGGAAATACAGCAGTGCTTACATTTATTGCTT CTATTTTATTTTCTCTTCCTGTCTTCTGATTGTTCTCCTTCTGTCCACAAACA [T,C]GCTCTAATTTCCCTAGTATTAAAAATTTTCTGTCTTTTGTTGTTCTTTTATCCTTGCTCC CTTATTTTTACTGCCAGATTTTTATTTTATTTATTTTTTTGAGATGGAGTCTCACTC TGTCACCCAGGCTGGGGTGCAGTGGCGCGATCTCAGCTCACTGCAACCTCCGCCTCCCAG CTTCAAGCAATTTTCCTCTTTTAGCCTCCCAAGTAGCTGGGATTATGGGCACCTGCCACC ATGCCTGGCTGATTTTTCTATTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCACACTG . (SEQ ID NO:68) 20492 CACTCTGTCACCCAGGCTGGGGTGCAGTTGGCGCGATCTCAGCTCACTGCAACCTCCGCCT CCCAGCTTCAAGCAATTTTCCTCTTTTAGCCTCCCAAGTAGCTGGGATTATGGGCACCTG CCACCATGCCTGGCTGATTTTTCTATTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCA CACTGCTCTCAACTGCTGACCTCAGGTGAACCACCCGCCTCAGCCTCCAAAAGTGCTGG GATTGCAGGTGTGAGTCACTGTGCCTGGCCTTTTACTGCCAGATTTTTAAAAGAATAGTC $[\mathsf{T}, \mathsf{-}]$ GTGCTTTAGCTCTATTTCCTCATTTACTACTTCTCTTTAACTCAGTCATATATGATGTTT TGCATAGTAAATGTCTAGTAATTTATTAAAAATGTAGAAATAGGTACTTTTAAAAATGAAT AGATCCTACTTTAATTGAATTTATCTTGGAGTTAGAATATCTTGATTTGGATTTTAGTTC (SEQ ID NO:69) 20868 TAGTAATTTATTAAAAATGTAGAAATAGGTACTTTTAAAATGAATAGATCCTACTTTAAT TGAATTTATCTTGGAGTTAGAATATCTTGATTTTGGATTTTAGTTCTGCTACTTCTTAATT CATTTTTAGTATTGATGTTGGGATAGGCATTTAAGCAAGTCTATAACTCACCTACATGCA [T,C]AATTITGCCTTAATCAGTTTAAAGCTTTCTCTTAAATGAGAGATTTGAAATTCATAATTT CTGTGGTTCTTATCAGTTCTGAGTTTTATTTTTTGCCCTTTTTATTTTTTTAAAGGAAAA ATTGAGGCTTCAGAAATTGTCCAGTCTCTCCAGACACTGGGTCTGACTATTTCTGAACAA CAAGCAGAGTTGATTCTTCAAAGGTAAGCTCTTCATGTTGGTCAACAATTGACTTTCACT TTAATATCCTGCATTAGAACTCTGTGTTTGTAAGTGTGGCTTTAAAACACCTCCCTAGTC (SEQ ID NO:70) 20941 GAGTTAGAATATCTTGATTTTGGATTTTAGTTCTGCTACTTCTTAATTACATTACTTGGTA TTACTGAATTTTAAAAAATGTGTATTTATTTTTTAATGTATTTGTTACATTTTTAGTATT GATGTTGGGATAGGCATTTAAGCAAGTCTATAACTCACCTACATGCATAATTTTGCCTTA ATCAGTTTAAAGCTTTCTCTTAAATGAGAGATTTGAAATTCATAATTTCTGTGGTTCTTA [T,C]CAGTTCTGAGTTTTATTTTTTGCCCTTTTTATTTTTTTAAAGGAAAAATTGAGGCTTCAG AAATTGTCCAGTCTCTCCAGACACTGGGTCTGACTATTTCTGAACAACAAGCAGAGTTGA TTCTTCAAAGGTAAGCTCTTCATGTTGGTCAACAATTGACTTTCACTTTAATATCCTGCA TTAGAACTCTGTGTTTGTAAGTGTGGCTTTAAAACACCTCCCTAGTCTTCATTATGTATA TCCAAGATCTTTTTGTCTTTTTTCCTCCCATTCATTTTGTATGTGTACATTTATCTAAAG (SEQ ID NO:71) 21116 GTATTGATGTTGGGATAGGCATTTAAGCAAGTCTATAACTCACCTACATGCATAATTTTG CCITAATCAGTTTAAAGCTTTCTCTTAAATGAGAGATTTGAAATTCATAATTTCTGTGGT TCTTATCAGTTCTGAGTTTTATTTTTTGCCCTTTTTATTTTTTTAAAGGAAAAATTGAGG CTTCAGAAATTGTCCAGTCTCTCCAGACACTGGGTCTGACTATTTCTGAACAACAAGCAG AGTTGATTCTTCAAAGGTAAGCTCTTCATGTTGGTCAACAATTGACTTTCACTTTAATAT [C,T]CTGCATTAGAACTCTGTGTTTGTAAGTGTGGCTTTAAAACACCTCCCTAGTCTTCATTAT GATAGTGGAATGGCAGGAAGTAAGGTTTTAACTCCATAGATGAGGAGCTGAAGAGTTTTG GTGTTGCTTTTTCTCCATTTGATTTCTAATGTGACAGTAAAACTCATTGATTCAAACTAA (SEQ ID NO:72)

21701	CATTGATTCAAACTAAGAAGACTAGCAGATTCATCACATTATTTAACCTAGATGTGACTG	
	GAAAAAAGGGAAATTACTAAGCTCTCCAAGCTAACAAAGAAATACCTGTTTAAACTTTCA	
	GAAAACAGAAATTTGAACCTTATTGTCTGGGGCAATCAGTTTGACTATTTAAGT	**
	CAGACTTTTATACTCTTAATGTTTTGTTTCATGGGATAGAGCAGTAATCTCTGCAGCCCA	
	GGTGCTCTCAAATACTCTGTTGCTATAAACACAGGGCAGGAACTGATTTTTTATGATAAC	
	[G,A]	
	TAAAACAGAAAAGGACAATTATATTGTATTAATATTGTTGTGAATATTTTCAGTCCTCAC	
	ATTGTCTAAAAATCTTTCTAAATGGCTTTGTTATTGAATTTATCTCATTTTATATCTGTG	
	CCAACAGCATTTTCATCCTTTCTCTTCATAATTTCTTTTACAAACAGCTGCTCAAGAGGA	
	AGGCTCAAAGTCTCAAGGCTGAGCACGTAATGACTTTTGTTAGTACTAGATGAGAAGGGC	
	TTTCCTGAGGAAATGAAAACCTAAAACATGAAAAGAAGATAAACAGAATTTGGACAGTGA	(SEQ ID NO:73)
	,	
21710	AAACTAAGAAGACTAGCAGATTCATCACATTATTTAACCTAGATGTGACTGGAAAAAAGG	
	GAAATTACTAAGCTCTCCAAGCTAACAAAGAAATACCTGTTTAAACTTTCAGAAAACAGA	
	AATGCAAATTTGAACCTTATTGTCTGGGGCAATCAGTTTGACTATTTAAGTCAGACTTTT	· ·
	ATACTCTTAATGTTTTGTTTCATGGGATAGAGCAGTAATCTCTGCAGCCCAGGTGCTCTC	
	AAATACTCTGTTGCTATAAACACAGGGCAGGAACTGATTTTTTATGATAACGTAAAACAG	
	[A ₁ -]	
	AAAGGACAATTATATTGTATTAATATTGTTGTGAATATTTTCAGTCCTCACATTGTCTAA	u 1d objection
	AAATCTTTCTAAATGGCTTTGTTATTGAATTTATCTCATTTTATATCTGTGCCAACAGCA	
	TTTTCATCCTTTCTCTTCATAATTTCTTTTACAAACAGCTGCTCAAGAGGAAGGCTCAAA	•
	GTCTCAAGGCTGAGCACGTAATGACTTTTGTTAGTACTAGATGAGAAGGGCTTTCCTGAG	, .
	GAAATGAAAACCTAAAACATGAAAAGAAGATAAACAGAATTTGGACAGTGAGATATAGAG	(SEQ ID NO:74)
	· · · · · · · · · · · · · · · · · · ·	(SEQ ID 160.77)
21826	CAGAAATGCAAATTTGAACCTTATTGTCTGGGGCAATCAGTTTGACTATTTAAGTCAGAC	
	TTTTATACTCTTAATGTTTTGTTTCATGGGATAGAGCAGTAATCTCTGCAGCCCAGGTGC	• .
	TCTCAAATACTCTGTTGCTATAAACACAGGGCAGGAACTGATTTTTTATGATAACGTAAA	
	ACAGAAAAGGACAATTATATTGTATTAATATTGTTGTGAATATTTTCAGTCCTCACATTG	•
* 4	TCTAAAAATCTTTCTAAATGGCTTTGTTATTGAATTTATCTCATTTTATATCTGTGCCAA	•
	[C,T]	
· · · · · · · · · · · · · · · · · · ·	AGCATTTTCATCCTTTCTCTTCATAATTTCTTTTACAAACAGCTGCTCAAGAGGAAGGCT	•
* * * * * * *	CAAAGTCTCAAGGCTGAGCACGTAATGACTTTTGTTAGTACTAGATGAGAAGGGCTTTCC	. 2
e e e e e e e e	TGAGGAAATGAAAACCTAAAACATGAAAAGAAGATAAACAGAATTTGGACAGTGAGATAT	
	AGAGCATATAATATTCTGCTTCTAAAGTAATATTCTTCTAGGAAAGTGAGGGCGTTTCCC	
	TGGCTGTTAGGCCAGAAATCATATTCCTATATTTTCTTTGATAGCTTTAGGAATAATGCA	(SEQ ID NO:75).
* *	Toocia i naacchama i caini i teel ni annaet i naamina jaca	(\$EQ\$ ID 140.73).
21840	TGAACCTTATTGTCTGGGGCAATCAGTTTGACTATTTAAGTCAGACTTTTATACTCTTAA	•
	TGTTTTGTTTCATGGGATAGAGCAGTAATCTCTGCAGCCCAGGTGCTCTCAAATACTCTG	•
	TTGCTATAAACACAGGGCAGGAACTGATTTTTTATGATAACGTAAAACAGAAAAGGACAA	•
	TTATATTGTATTAATATTGTTGTGAATATTTTCAGTCCTCACATTGTCTAAAAATCTTTC	
	TAAATGGCTTTGTTATTGAATTTATCTCATTTTATATCTGTGCCAACAGCATTTTCATCC	
	[-,T]	
	TTCTCTTCATAATTTCTTTTACAAACAGCTGCTCAAGAGGAAGGCTCAAAGTCTCAAGGC	* * * * * * * * * * * * * * * * * * * *
****	TGAGCACGTAATGACTTTTGTTAGTACTAGATGAGAAGGGCTTTCCTGAGGAAATGAAAA	
• •	CCTAAAACATGAAAAGAAGATAAACAGAATTTTGGACAGTGAGATATAGAGCATATAATAT	4. *
	TCTGCTTCTAAAGTAATATTCTTCTAGGAAAGTGAGGGCGTTTCCCTGGCTGTTAGGCCA	
		(CEO TD NO.76)
	GAAATCATATTCCTATATTTTCTTTGATAGCTTTAGGAATAATGCAAATTCTAAGCCCAA	(SEQ ID NO:76)
21841	GAACCITATTGTCTGGGGCAATCAGTTTGACTATTTAAGTCAGACTTTTATACTCTTAAT	
21071 .	GTTTTGTTTCATGGGATAGAGCAGTAATCTCTGCAGCCCAGGTGCTCTCAAATACTCTTGT	
	TGCTATAAACACAGGGCAGGAACTGATTTTTTATGATAACGTAAAACAGAAAAGGACAAT	•
	TATATTGTATTAATATTGTTGTGAATATTTTCAGTCCTCACATTGTCTAAAAATCTTTCT	
	[-,C,T]	
	TCTCTTCATAATTTCTTTTACAAACAGCTGCTCAAGAGGAAGGCTCAAAGTCTCAAGGCT	
	GAGCACGTAATGACTTTTGTTAGTACTAGATGAGAAGGGCTTTCCTGAGGAAATGAAAAC	•
	CTAAAACATGAAAAGAAGATAAACAGAATTTGGACAGTGAGATATAGAGCATATAATATT	
	CTGCTTCTAAAGTAATATTCTTCTAGGAAAGTGAGGGCGTTTCCCTGGCTGTTAGGCCAG	

AAATCATATTCCTATATTTTCTTTGATAGCTTTAGGAATAATGCAAATTCTAAGCCCAAG (SEQ ID NO:77) 21843 ACCTTATTGTCTGGGGCAATCAGTTTGACTATTTAAGTCAGACTTTTATACTCTTAATGT TTTGTTTCATGGGATAGAGCAGTAATCTCTGCAGCCCAGGTGCTCTCAAATACTCTGTTG CTATAAACACAGGGCAGGAACTGATTTTTTATGATAACGTAAAACAGAAAAGGACAATTA TATTGTATTAATATTGTTGTGAATATTTTCAGTCCTCACATTGTCTAAAAAATCTTTCTAA ATGGCTTTGTTATTGAATTTATCTCATTTTATATCTGTGCCAACAGCATTTTCATCCTTT [-,C] TCTTCATAATTTCTTTTACAAACAGCTGCTCAAGAGGAAGGCTCAAAGTCTCAAGGCTGA GCACGTAATGACTTTTGTTAGTACTAGATGAGAAGGGCTTTCCTGAGGAAATGAAAACCT AAAACATGAAAAGAAGATAAACAGAATTTGGACAGTGAGATATAGAGCATATAATATTCT. GCTTCTAAAGTAATATTCTTCTAGGAAAGTGAGGGCGTTTCCCTGGCTGTTAGGCCAGAA ATCATATTCCTATATTTTCTTTGATAGCTTTAGGAATAATGCAAATTCTAAGCCCAAGCT (SEQ ID NO:78) 22045 ATATTTTCAGTCCTCACATTGTCTAAAAATCTTTCTAAATGGCTTTGTTATTGAATTTAT CTCATTTTATATCTGTGCCAACAGCATTTTCATCCTTTCTCTTCATAATTTCTTTTACAA ACAGCTGCTCAAGAGGAAGGCTCAAAGTCTCAAGGCTGAGCACGTAATGACTTTTGTTAG TACTAGATGAGAAGGCTTTCCTGAGGAAATGAAAACCTAAAACATGAAAAGAAGATAAA CAGAATTTGGACAGTGAGATATAGAGCATATAATATTCTGCTTCTAAAGTAATATTCTTC [C,A,T]AGGAAAGTGAGGGCGTTTCCCTGGCTGTTAGGCCAGAAATCATATTCCTATATTTTCTTT GATAGCTTTAGGAATAATGCAAATTCTAAGCCCAAGCTTCAGAATAGACTAAGAAGTATT AGCTTAGCTGCCATGACAAAATACCATAGGCTGGATGCATTAAACAATGGAAATTTAGTT TGAGGGCTCTCTTTCTGGCTTGCAGATAGACCCCTTCTCACTGTATTGTCATATGGCAGA (SEQ ID NO:79). 22061 CATTGTCTAAAAATCTTTCTAAATGGCTTTGTTATTGAATTTATCTCATTTTATATCTGT GCCAACAGCATTTTCATCCTTTCTCTCATAATTTCTTTTACAAACAGCTGCTCAAGAGG AAGGCTCAAAGTCTCAAGGCTGAGCACGTAATGACTTTTGTTAGTACTAGATGAGAAGGG CTTTCCTGAGGAAATGAAAACCTAAAACATGAAAAGAAGATAAACAGAATTTGGACAGTG AGATATAGAGCATATAATATTCTGCTTCTAAAGTAATATTCTTCTAGGAAAGTGAGGGCG [G,T]TTCCCTGGCTGTTAGGCCAGAAATCATATTCCTATATTTTCTTTGATAGCTTTAGGAATA ATGCAAATTCTAAGCCCAAGCTTCAGAATAGACTAAGAAGTATTAGCTTAGCTGCCATGA CAAAATACCATAGGCTGGATGCATTAAACAATGGAAATTTAGTTTTTCACAGGTCTGGGA GCTGGGAAGTTTAAGATGAGAGTGCCAGCATGGTTGGGTTGTAGTGAGGGCTCTCTTTCT (SEQ ID NO:80) GAAAGTGAGGCGTTTCCCTGGCTGTTAGGCCAGAAATCATATTCCTATATTTTCTTTGA TAGCTTTAGGAATAATGCAAATTCTAAGCCCAAGCTTCAGAATAGACTAAGAAGTATTAG CTTAGCTGCCATGACAAAATACCATAGGCTGGATGCATTAAACAATGGAAATTTAGTTTT TCACAGGTCTGGGAGCTGGGAAGTTTAAGATGAGAGTGCCAGCATGGTTGGGTTGTAGTG AGGGCTCTCTTTCTGGCTTGCAGATAGACCCCTTCTCACTGTATTGTCATATGGCAGAGA AGAGAGAGAGAGAGAGAGAGAGAGAGAGAGGGGATCTTTCTCTTTCTCTTTCTATTATAAGG CCATAGTCCTGTTGGATCAGGGTTCCATTCTTATGACTTTATTTGACTTTACCCCCCTAA . GATGCTATCTCCAGATATAATCACACGGTGGGTTAGGGCCTCAACATTTGGATTTGGAG GGACACAGCTCAGTCCATAGCAAAGGATAATGCAGAGGGTTGGATATTTAAAAGTAGCTA (SEQ ID NO:81) 22682 ATCTTTCTCTTGCTTTCTATTATAAGGCCATAGTCCTGTTGGATCAGGGTTCCATTCTTA TGACTTTATTTGACTTTACCCCCCTAAGATGCTATCTCCAGATATAATCACACGGTGGGT. (TAGGGCCTCAACATTTGGATTTGGGAGGGACACAGCTCAGTCCATAGCAAAGGATAATGC AGAGGGTTGGATATTTAAAAGTAGCTACACAATTTTTAATATAAATATTTTATGGTAACT TTTTTTTTTTTTTGAGATGGAGTCTAGCTCTGTTGCCCAGGCTGGAGCGCAATGGTGCGA [A,G,T]CTCAGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTG

GAGACGGTTTGCACCATATTGGTCAGGCTTGTCTCGAACTCCTGACATCAGGTGATCCA CCCATCTTGGCCTCCCAAAGTGCTGGGATTACAGAAGTGAGCCACCGCGCCTAGCCAGCA GCTTTACTGAGATGTAATTCACATGCCATAAATTCACTTTTCTAAAGTATACAATTCAGT (SEQ ID NO:82) 22783 CCATAGCAAAGGATAATGCAGAGGGTTGGATATTTAAAAGTAGCTACACAATTTTTAATA TAAATATTTTATGGTAACTTTTTTTTTTTTTTGAGATGGAGTCTAGCTCTGTTGCCCAGG CTGGAGCGCAATGGTGCGATCTCAGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCAAT. TCTCCTGCCTCAGCCTCCTGAGTAGTTGGGACTATAGGCACGCGCCACCACGCCTGGCTA TTTTTTTTATTTTTACTAGAGACGGGTTTGCACCATATTGGTCAGGCTTGTCTCGAACT CCTGACATCAGGTGATCCACCCATCTTGGCCTCCCAAAGTGCTGGGATTACAGAAGTGAG CCACCGCGCCTAGCCAGCAGCTTTACTGAGATGTAATTCACATGCCATAAATTCACTTTT CTAAAGTATACAATTCAGTGACTTAAAACATTTATTTTTTAAATTGACAGAATTACA TGTATTTATCATGTACAACATGATGTTTTGAAGTATATGTACATTGTGGAGTGACTAAGT $(SEQ_ID_NO:83)$ 23448 TTCTCTTAGTATTTTTCAAGAATATAATATTATTAATTGTAGTCTTCATGTTGTA TAGTGGAGCTCTTGAACTTATTCCTCATGTCAAGCTGAAATTGTGTGTCCTTTAACACAA ACCATACCCGACTCCCAAAGTATTCTGCTCTCTGCTTCTATGAGATTAACTTTTTCTGAT TGTTACAGATAACAGGATTTCCTTCTTTTTTTAATGGCCGAATAGTTTTCTATTGTATAT [A,G]TATAGCACATTTTCTCTCTTCATGCATTGGTGGACACTTAGGTTGATTCCGTATCTTGGC TATCGTGAATAGTGCTATAATGAACATGGGAATGCACATGGCTCTTTGACATATTGATTT AGGATCATATGGTAGTTCTATATTTAATTTTTAAAGGAACTCCATACTGCTTTCCATAAT GGCTGTATTAGTTTAACTCCTCACCAACAGGGTGCAAAAGTTCCCTTTTCTCTACATACT. (SEQ ID NO:84) 24960 TTTGTTCTAGAGTATAGTTTAAGTCTGATGTTTCTTACTGATTTTCTGTTGAGATGATTT TGTTGTTTTTGAGACGGAGTCTCACTCTGTCACCAGGCTGGAGTGCAGTGGCAGGGTCTC GGCTCACTGCAGCCCCCGTCTCACGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTC [G,A] CTGGGACTACAGGCGCATGCCACCACGCCCAGCTAATTTTTTGTATTTTTAGTAAAGACGG GGTTTCACCATGTTGGCCAGGATGGTCTTGATCTCTTGACTTCATGATCCACCCGCCTTG GCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCACCCCTGGCCAATGTTTGGTATT. CTTATTAAGGGATATGCAATATAAAATATATAAATTGTGACACTGAAAATTTAAAATGGG (SEQ ID NO:85) TCTGATGTTTCTTACTGATTTTCTGTTGAGATGATTTGTCTATTGCTGAAGGTAGGGTGT TITATTTTATTTGTTGTTGTTGTTGTTGTTGTTTTTTTGAGACGGAGTCTC ACTCTGTCACCAGGCTGGAGTGCAGTGGCAGGGTCTCGGCTCACTGCAGCCCCCGTCTCA CGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTCGCTGGGACTACAGGCGCATGCCA .. [T,C]. CACGCCCAGCTAATTTTTGTATTTTTAGTAAAGACGGGGTTTCACCATGTTGGCCAGGAT GGTCTTGATCTCTTGACTTCATGATCCACCCGCCTTGGCCTCCCAAAGTGCTGGGATTAC AGGTGTGAGCCACCCCTGGCCAATGTTTGGTATTTATCTTTAGGTGCTCTGATGTTG GGTTCATATATTTATAAAAAAACAATAGCTACATAACTTATTAAGGGATATGCAATATA AAATATATAAATTGTGACACTGAAAATTTAAAATGGGAGGAGTGGAGTAAAAGTACCTTC (SEQ ID NO:86) AGTGCTGGGATTACAGGTGTGAGCCACCACCCCTGGCCAATGTTTGGTATTTÄTCTTTAG GTGCTCTGATGTTGGGTTCATATATATTTATAAAAAACAATAGCTACATAACTTATTAAG GGATATGCAATATAAAATATATAAATTGTGACACTGAAAATTTAAAATGGGAGGAGTGGA GTAAAAGTACCTTCATATAACTTACTATTATATCCTCTTATTGAATTGACCCTTTTATCA [T,C].

*	AAGTAAAGTTACTCCTGCTCTCCTTTGGTTTCTGTTTCCATTGGAATATCTTTTTCCATTC	
	AGTTGGATCTAGTTTTTTTAATCCACTCAGACACTGTGTTTTTTGATTGGATAATTTAAT	
	CCATTCATGTTCAAGGTAATTATTGATAAGTAAGGACTTTGTACTACCATTTTGCTTATT	
والأراب المطارع في في المرازي	GTTTCATGGTTCTTTATAGATCCTTTATTCTTTCTTCCTCTCTCT	(SEQ ID NO:87).
	1	
26060	GGTTTTTGGTTTGTGGTTACCAAGAGGTTACAAAAAACATCTTAAGAGTTATAATAGTTT	
	ATTTTAACTTGATAACTTAATTTTTATTGCAAAAACCCCCCCAAAACAAAAAAATCTACAC	
	TTTTACTTAATCCCCTGAAATTTTGAATTTTTGATGTCACAGTTTACCTCTTTTCATATT	
	GTGTATCCCTTAAATTATTGTAGCTATTATTACTTTTAATAGTTTTCTCTTTCCTACTAC	
	AGATGTAAGTGATTTGCATACCATCATTACAGTATTATTTTGAATTTACCTGTGTACTTT	
	[C,T]	
	TTTTATCAGCCAGTTTTATACTTTCAGATGTTTTTGTGTTACTCATTAGCATCTTTTTCT	•
	CTCAGCTATTGTTTGTCTGGGAAAGTATCTCTCCTTCATTTCTGAAGGACACTTTGCTGG	
	GTACATTACCCTTGGTTGGTATTTTTCTCCTTGAACGCTTTAAATATATCATCCCTTTCT	
\$	CTCCTGACCTGTTAGGTCTCTGCTGACCAGTCTGTTTCCAACCATATTGGGACTGTCTTA	(SEO TO NO.88)
	erectorector industrictor decodification content to the content in	(SEQ ID 140:00).
30245	ATTTTAACCATCCATTGTTTCTGCTTCTCTAGATAACCCTGACTAATATATAATTGGTAT	
	GAAGTGATATCTCATGGCTTTGATTTATATTTCTTTCATGGCTAGTGACTTTTTTTGTAC	
	GTGTTAGAAACAATTTTTAAAGGCAGAATGTGACCAGAGTTTCCTGTAGTTATATAACCA	
	TCATGGACCTTCCCTCAAGTGCTAAGCCATTAGTGTTACTCATGTCACTCCAAATGTCAG	
	[C,G]	
	TIGITITICITICCATTICACIGICTCTTTIGIGTCCCAAACTTGAATTCATGGGAAAAACAT	a4).
	CTGAATGGTGCTTAATATGGTTTGGATATTTGTCCCCTCCAAATCTCATGTTGAAATATG	
	ACCTCCAGTGTTGGAAGTAGGGACTACTTGGGTCACGAGAGTGGATCCTTCATTAATGGC	
	TTGGTAATAAGTGAACTCTATTAGTTCATGAAAGCTGGTTGTTGATAAGAGCCTGGCATC	
		(SEQ ID NO:89)
	TOTT TETET TOTAL CATE TO ACCATE TO A	(SEQ ID NO.03)
33664	TTCCAGAGTGTAGAAGTACACTGTCCTATCCTTTCTAGGAGATCATTATAACACCAAAAG	
33001	CAGACAGTATATGAAACAGGGAAATTAGAGGCCAAGATACCTATGACTTATATGTAAAAA	
	TTTAAAGAAAATATTAGCAAACTGAATCAGCCAT.TTTAAAAAAATATACCACAATCAATGC	4 .
	ATTCATAAGAGCAGCTTAACAAAATTTGTTAGAAGGCATTAAAGAAGACTCAGTATAGAA	
	AAGATGTACCTTCTCCAAATTGGTGATAGAGATTCAATGCCATTAAAAAAAA	
	GAATATCCAGGACATTCCTGAAGAACTGTAAGGAGCCAGGGGCCTGCCCTATCAGATACC	*
	AAGGGTTGTTATTAAGCCATAACCAAGTCAGTGCTGTTTCTACAGAAACAGACAAGTTAA	
	CAAGTGAAACATAATAGAGAGCCCAGAAACAGACCCATCCAT	(00)
	GAAAGAAGTAGCTTTGCAAAACTTTGGGAAAAGGAGAGTGTGTGCAATAGATGATGCTCG	(SEQ ID NO:90)
33883	TAAAGAAGACTCAGTATAGAAAAGATGTACCTTCTCTCCAAATTGGTGATAGAGATTCAA	4
	TGCCATTAAAAAAACCCACCTGGTTTTTTTTGAGGAACTTGTCAAGCTGAGTCTCAAATTT	•
	ATATCAAAGAGCAAAGGCCTAAGAATATCCAGGACATTCCTGAAGAACTGTAAGGAGCCA	. 1
	GGGCCTGCCCTATCAGATACCAAGGGTTGTTATTAAGCCATAACCAAGTCAGTGCTGTT	•
	TCTACAGAAACAGACAAGTTAACAAGTGAAACATAATAGAGAGCCCAGAAACAGACCCAT	
		•
	CATATTTTGGATTTGTCACGTGAAAGAAGTAGCTTTGCAAAACTTTGGGAAAAGGAGAGT	•
	GTGTGCAATAGATGCTCGTGCTCATGCAGACAAAAAGGAAATTGGGATACCTGCCTC	
	TTACCGTACACAAACACCAACCTAAACGTGAAAGTTAAACTATAACAGCTTGAGGTGGTG	
	GGGAAGAAATATCTTTATCTCAGTGTAGGGAAGAATTTATTT	,
	GGCCATACATAGGAATGAAAAGATTGAATTCAGCTGCATTAAAAAAGATTAAATTCAGCTG	(SEQ ID NO:91)
34373	TATCTTTATCTCAGTGTAGGGAAGAATTTATTTTAAAAAGAAGACACAAAAGGCCATACA	•
	TAGGAATGAAAAGATTGAATTCAGCTGCATTAAAAAGATTAAATTCAGCTGCGTTAAAAT	•
	CAAGAGCATCTGTACTTGGACAGCATAGAGTGGAAAGACAAAGAGAAGGTATTTGCCAGC	•
	TTATAACTTGAAGGATTAGAATGAATGATATAAAGAACTATGTAAATAAGAAAAAAGACAT	

	ACAACCGGTTAGAAAAACGGGCAAAGACATGAACAGCATATTTCACGTGAAGGAAACAGC	
	[G,A]	
	GTAGCAAATGAACATGGTAAGAGATGCTCAACACGTTTAGTAATTTGAAGGGAAATGCAA	
	GTTATACCCACAGCAAGACTATCTTATCTAGGAAGTTTGTCAATACCCTAAATGTTCTGT	
	GGTTTTAAGCTACAGAGTTTGTAATTCATTTATTCAATAAATA	
·	ACTGTTTTAGAAACCTTGGTTATAACTTTGAATGAAATTAAAAAAAA	
	GAGGATGCTTATGTGTGGGGAGTTGGGTGGGGTCAAACAACAACAATTACATTAAAATAG	(SEQ ID NO:92)
34558	ACTTGAAGGATTAGAATGAATGATATAAAGAACTATGTAAATAAGAAAAAGACATACAAC	•
J-1330	CGGTTAGAAAAACGGGCAAAGACATGAACAGCATATTTCACGTGAAGGAAACAGCGGTAG	
	CAAATGAACATGGTAAGAGATGCTCAACACGTTTAGTAATTTGAAGGGAAATGCAAGTTA	
	TACCCACAGCAAGACTATCTTATCTAGGAAGTTTGTCAATACCCTAAATGTTCTGTGGTT	•
	TTAAGCTACAGAGTTTGTAATTCATTTATTTATTCAATAAATA	
	[G,T]	
	TTTAGAAACCTTGGTTATAACTTTGAATGAAATTAAAAAAAA	
	TGCTTATGTGTGGGGAGTTGGGTGGTGGGGTCAAACAACAATTACATTAAAATAGAAAAT	
	AGTGACATAAATAAACCTATAAATATTGCAACCCAGAGTTATATTATAAATGTAAGTAGT	,
	•	
	GACTAGGACTCTCATGCAGATATACCTCTGTGCTGGGACAAATGAAAGTTTAAGTGTAAT	(050 TO 110 03)
	TTCCCATATGCAAGTCAAAATAAAAAGTGACACTAGAAAACACAATAATGAATATCTGAA	(SEQ_ID_NO:93).
43929	GGCATTTAAGTATTCTGCCATAGGGAAGTGTAAAAGTTGTAGGCTTTTACTTTTTATAGG	•
•	TACTATATTGTCCAAATAATCTCAGCACCTCATGGTTGCTAAGGATCTGTGTCCTTGTTT	•
	GGTCAGATTATGTTTATCTCTGGCATAAGGCACTTAACAATATTCATTAAAGGTTACAGA	•
	ATCTTTTTGCTTCATCTGCTTAGCATTTCATACCAGTTTGTTT	
	TTTTGATTGTTTCATTAATATTCTGCATACTGATGTAAACCAAGTTCTATTATTGTGCAA	\$-
	[T,A]	
	CTGCTCCTGAAACCCTTAGGAACTCTCTGAAGGAGTTTTATTTA	
	TIGITITIGITTITGAGACGGAGTCTTGCTCTGTTGCCCAGGCTAGAGTGCAG	1
. ~	TGGTGCGATCTCGGCTCTCTGCAAACTCGGCCTCCGGGGTTCACGCCATTCTCCTGCCTC	,
,	AGCCACCGGAGTAGCTGGGACTACAGGCACCCACCACTGCGCCTGGCTAATTTTTTTT	
	ATTTTTAGTAGAGACGGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTT	(SEQ ID NO:94)
	ATTITIATIAGACGGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTT,	(350 110.94)
44200		, (4)
44309	TTGAGACGGAGTCTTGCTCTGTTGCCCAGGCTAGAGTGCAGTGGTGCGATCTCGGCTCTC	
	TGCAAACTCGGCCTCCGGGGTTCACGCCATTCTCCTGCCTCAGCCACCGGAGTAGCTGGG	
	ACTACAGGCACCCACCACTGCGCCTGGCTAATTTTTTTTT	
· · · · · · · · · · · · · · · · · · ·	TTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTTGTAATCCGCCCGC	•
	TCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGTGCCCGGCCTTTTTTTT	1
	[T,-,C]	•
	TTTATGGGCTTGTCTTCTACACTTCAGATTTGACTAAATTAAATATGCATTAAATGAAGT	•
	CAGGAGTTCACATTGCCACTAGTAACAATGCCTAAGCTTACATAAAGCATTATAAAATTG	8
	TTGGTGATTAGTGCCTTCTCAGCTATGAGTATAAGATAATATTATACTAGTAGTTCAGTT	- 00
	GCCTAGATAAATTGTACACTATGTGAAGTTTTATTTACATAATTCTTACGGTATTTTTTA	
	AGGTAGTTGATAACAGTTGAGACTACAATTGTATCTCCATTTTATTGATAGTAAAATGAA	(SEQ ID NO:95)
44997	GAATTGTAAAAATATTATTATAGAATTGTTTCTCTCAAACTATAGTAATGTAGAATAGGT	-8
	TGAAGGGTGATGATTTGAAACAATACCTCTCCATTAGCTAAATTTTTATATAGAATCTAT	i.
••	TGCATGTTTTAAATGATAAGTCAGATTTATAAAAAATATTTTTATAAACAGTAGGAAATGA	
	GTTTAGGGGTATTCACATACAGTTTTAATTTTTATTTACATATTTTAAAACATATCATGGT	•
	ATAAATATGATGTGGATATAAATTTGAGATAAAGGAAGTATTGTTTAAGAATTGATGA	1 .
.	[T,G]	•
	AATTICTTAAAAGATGTCATCACCAGTTGGTTTTCTAGCCTTATGAAAAATGGTTGCAAT	•
	AAAAAAGATTGACTATGATAAAATGCTGCCCTTTCATTTTAACCTAGACCAAGAGAAAAC	.,
		•
	ATACTGTGAATCTATGATGAAAGAAAGTTGTAACTGTTGGTTTTGTATATTTGTAA	
	TTACTGTTTATTTTCATTTCTTGTGAACTGATACTGTACTTTGTTCATTGTGAGTAGACA	(
• • • • •	ACTTATAATCTATGTACTCAAATTGGTTTAGTATAAATTCTAGGGAATGAAGTTCATATT	(SEQ ID NO:96)
46538	TGTTATACTTATGGTCAACACTTTTTATATTTGTCTGTAGATTTCTGTACAAAAAGATTC	
	TGACACTGTTTTAAGCCAGCATTCCTTCAGAATGTACCCAAATCTCAAAATTTATTT	

GGCAAAGCTAATGCTTTAAAGAAAAAGGAGA [A,G]. GGGATTGGTGTGTTTTTCTTTAGGAACAGTAGTAACTTGACTTTTAGAGAACTTGAAT GGATTTCTCTGGAATTTAGTTTCTGCAAATTTGAGGAGTTTCCAAAGTCAACCTTCAGGT TTGATACTTCTCTAGAAAGACTCACTAAACTCACTGAAAGCTTATTACCCCCTGGTTATGG TTTATTACGGGGAAAAGATGCGGATGAAAATCAGTCAAGTAAAGAAGCACATAGGGCAGA (SEQ ID NO:97)**48153** . TTATATCATTCTGCTTTTATTTTTAGGTTCACGGTTCAAAATCAGACAAAATGAACATAT GTACAAACGTCATCAAAATTGCTCCTGAGACAGCTGTTAAATTCTGGGCATATGAACAGG TAATTGTTATCACCCGTGGAATTTATTAACAAAGAGGAGTTAGTAAACGGATTCAATAAA TGTTAATGTATAATGCTTTTGGGATTCTTGTTTTAATACATGATAATCTTTCACATATAC [T,C]TTAAAGGAAGGGTAGAATTTTAGTTTATTCATTCTGAATCCTGAGCAGAAGCAGCACACT TCCTTTGTGTAATTTGACGTTGCTGTAAAATTGAGCTGAGTTTGGAGTGACACCTCCATG (SEQ ID NO:98). 48288 AAATTGCTCCTGAGACAGCTGTTAAATTCTGGGCATATGAACAGGTAATTGTTATCACCC GTGGAATTTATTAACAAAGAGGAGTTAGTAAACGGATTCAATAAATGTTAATGTATAATG CTTTTGGGATTCTTGTTTTAATACATGATAATCTTTCACATATACCCCATAAGGAGGATC ACTTATAGGAGATTAGACTAAATAAAATCAGAGATTTCTCATGACCAAGTTATGGGATTC [G,T]AATTTTAGTTTATTCATTCTGAATCCTGAGCAGAAGCAGCACACTAACATAAGTTTTATG AAAGTGTCACAATCTAACCTCTGGAAGGAAAACTATAAGTTGAAGTCCTTTGTGTAATTT GACGTTGCTGTAAAATTGAGCTGAGTTTTGGAGTGACACCTCCATGAAGGCAGGGGCGTGG CTTCTTCCCCATGTACTCCAGCACCTAGACAGAGCTTGGCATGTGATAAGTTTCAAGCGA GTGTTGAATGAGTCAATGAATGAACAAATGCATTTACCTCTGAATCACTTCTCTGTCGGC (SEQ ID NO:99) TGGGATTCTTGTTTTAATACATGATAATCTTTCACATATACCCCATAAGGAGGATCACTT ATAGGAGATTAGACTAAATAAAATCAGAGATTTCTCATGACCAAGTTATGGGATTCTTAA TTTAGTTTATTCATTCTGAATCCTGAGCAGAAGCAGCACACTAACATAAGTTTTATGAAA GTGTCACAATCTAACCTCTGGAAGGAAAACTATAAGTTGAAGTCCTTTGTGTAATTTGAC [G,A]TTGCTGTAAAATTGAGCTGAGTTTGGAGTGACACCTCCATGAAGGCAGGGGCGTGGCTTC TTCCCCATGTACTCCAGCACCTAGACAGAGCTTGGCATGTGATAAGTTTCAAGCGAGTGT TGAATGAGTCAATGAATGAACAAATGCATTTACCTCTGAATCACTTCTCTGTCGGCTTTT. GTTAACTTGGATTATTTGAGCTATTGCTTCAGCCTAACTCAATGTAAAGGGGAAATACAG AGGTAAGTTTTAGAGTTTGGGTTCTCTTTATGGTCATTAGCAGAACTGTCTAGTTGAGCA (SEQ ID NO: 100). 48446 AGTTGAAGTCCTTTGTGTAATTTGACGTTGCTGTAAAATTGAGCTGAGTTTGGAGTGACA [C,G]CTCCATGAAGGCAGGGGCGTGGCTTCTTCCCCATGTACTCCAGCACCTAGACAGAGCTTG TCTGAATCACTTCTCTGTCGGCTTTTGTTAACTTGGATTATTTGAGCTATTGCTTCAGCC TAACTCAATGTAAAGGGGAAATACAGAGGTAAGTTTTAGAGTTTGGGTTCTCTTTATGGT (SEQ ID NO:101) 48456 ATAAGGAGGATCACTTATAGGAGATTAGACTAAATAAAATCAGAGATTTCTCATGACCAA

FIGURE 3NN

AAAGGAAGGTAGAATTTTAGTTTATTCATTCTGAATCCTGAGCAGAAGCAGCACACTAA CTTTGTGTAATTTGACGTTGCTGTAAAATTGAGCTGAGTTTGGAGTGACACCTCCATGAA [G,C] GCAGGGGCGTGGCTTCTTCCCCCATGTACTCCAGCACCTAGACAGAGCTTGGCATGTGATA AGTTTCAAGCGAGTGTTGAATGAGTCAATGAATGAACAAATGCATTTACCTCTGAATCAC TTCTCTGTCGGCTTTTGTTAACTTGGATTATTTGAGCTATTGCTTCAGCCTAACTCAATG TAAAGGGGAAATACAGAGGTAAGTTTTAGAGTTTTGGGTTCTCTTTATGGTCATTAGCAGA (SEQ ID NO:102) 48789 GCACCTAGACAGAGCTTGGCATGTGATAAGTTTCAAGCGAGTGTTGAATGAGTCAATGAA TGAACAAATGCATTTACCTCTGAATCACTTCTCTGTCGGCTTTTGTTAACTTGGATTATT TGAGCTATTGCTTCAGCCTAACTCAATGTAAAGGGGAAATACAGAGGTAAGTTTTAGAGT TTGGGTTCTCTTTATGGTCATTAGCAGAACTGTCTAGTTGAGCAGCCACAGATTATGTTT TCCATTATTTATTCCATCATTGTTTATCAAGGACTGTAAGGGCCTTGAAATTCAACTCCC [C,-]CCCCCATAGTTTTTGTATTATTCCATGTAGATTTTTAGATTATTCTGGAGAGTGTTTTGTT CTTGAGCAACAGAATACTCTTGAGAAGATTACGAAGTCCAGTGGTATCCTTTTCTTTGCC .. TAGGAAATAGAGAAGCAAAAAAAAAAAAAAAAAAAAATTAAAGAAAATCTAGTCTCCAGG ATTITAATTAGAACCTATCCTTGGGAAGGCTATTTTCCTTATATGAAGGTTTGAAGATTC AAATCATGATTATTAAGGGCTAATGTTTGAGATACCCTTAGGTTATTCTGACCACATACT (SEQ ID NO:103) CATTTACCTCTGAATCACTTCTCTGTCGGCTTTTGTTAACTTGGATTATTTGAGCTATTG CTTCAGCCTAACTCAATGTAAAGGGGAAATACAGAGGTAAGTTTTAGAGTTTGGGTTCTC TTTATGGTCATTAGCAGAACTGTCTAGTTGAGCAGCCACAGATTATGTTTTCCATTATTT TTTTTGTATTATTCCATGTAGATTTTAGATTATTCTGGAGAGTGTTTTGTTCTTGAGCAA [G,C] AGAATACTCTTGAGAAGATTACGAAGTCCAGTGGTATCCTTTTCTTTGCCTAGGAAATAG AGAAGCAAAAAAAAAAAAAAAAAAAAAAATTAAAGAAAATCTAGTCTCCAGGATTTTAATTA GAACCTATCCTTGGGAAGGCTATTTTCCTTATATGAAGGTTTGAAGATTCAAATCATGAT TATTAAGGGCTAATGTTTGAGATACCCTTAGGTTATTCTGACCACATACTTGGATTTTAT GATAGGAAAGCCACAGCCTAAAATAAATAAATACTCAATGCAGTTATTTCAGTATGCAAG (SEQ ID.NO:104) 49126 GATTATTCTGGAGAGTGTTTTGTTCTTGAGCAACAGAATACTCTTGAGAAGATTACGAAG ATTAAAGAAAATCTAGTCTCCAGGATTTTAATTAGAACCTATCCTTGGGAAGGCTATTTT CCTTATATGAAGGTTTGAAGATTCAAATCATGATTATTAAGGGCTAATGTTTGAGATACC CTTAGGTTATTCTGACCACATACTTGGATTTTATGATAGGAAAGCCACAGCCTAAAATAA [A,G]TAAATACTCAATGCAGTTATTTCAGTATGCAAGAAGTTTGGTATTTTTGAAAAAGTCCAT GGGTATTGCAAGCAAATATGCACATTTTGCTTTATGCCATTTGTCAGATTCTTACCTTGG TAGTATTGTGATTTCTGCACACTAACTTTCTTAGACATGAAGAGAAAGCTGTCTACACAG TGTGGTGTAGTTTTCTTATGGGCTCTGGACCTATGGTGCTGTTTTCTCTCCTCCTGCTGA (SEQ ID NO:105) 49378 TGCAGTTATTTCAGTATGCAAGAAGTTTGGTATTTTTGAAAAAAGTCCATGGGTATTGCAA GCAAATATGCACATTTTGCTTTATGCCATTTGTCAGATTCTTACCTTGGATACCACCAAC AGGCATCCTCTGCTTCTGTCCACCCAAGCTCCTTCCTGAGACCTCTTTATAGTATTGTGA TTTCTGCACACTAACTTTCTTAGACATGAAGAGAAAGCTGTCTACACAGTGTGGTGTAGT. [T,G]TTCTTATGGGCTCTGGACCTATGGTGCTGTTTTCTCTCCTCCTGCTGAAGGTCCATTCAT CCCTCGGGGCTCTCTAAAAGCCACCTTCCTGTGACAAGCATATACTAAGCATCTCAATCA AAGCCAGTTCCTCCCCTGTCCAGCCTCCCTCGAGTGCTGAATTGCAGAATATCCCATTTT TCATTGGATGATAAACCCATTGTTTTCCCAGTGGATTGTAAATTACTTCGGGGTAAA TAGGCTGTATATATTCTCAAATTTCCCAGAGTATGTAACTAGGTCACTTTTAGATTCAGA (SEQ ID NO:106)

	•			,		
	49482	TCCATGGGTATTGCAAGCAAATATGCACATTTTGCTTTATGCCATTTGTCAGATTCTTAC				
		CTTGGATACCACCAACAGGCATCCTCTGCTTCTGTCCACCCAAGCTCCTTCCT		-	•	
		CTTTATAGTATTGTGATTTCTGCACACTAACTTTCTTAGACATGAAGAGAAAGCTGTCTA				
•		CACAGTGTGGTGTAGTTTTCTTATGGGCTCTGGACCTATGGTGCTGTTTTCTCTCCTCCT				
		GCTGAAGGTCCATTCATCCCTCGGGGCTCTCTAAAAGCCACCTTCCTGTGACAAGCATAT				
•		[A,C]				
		CTAAGCATCTCAATCAAAGCCAGTTCCTCCCCTGTCCAGCCTCCCTC				
		CAGAATATCCCATTTTTCATTGGATGATGGAAAACCCCATTGTTTTCCCCAGTGGATTGTAA				
		ATTACTTCGGGGTAAATAGGCTGTATATATTCTCAAATTTCCCAGAGTATGTAACTAGGT			•	
		CACTTTTAGATTCAGATAGATTTTGTTCCTTGAATAGCTAGTACTTTAGGAAACTAAGAA				
		AAAGATCTTTTCAACCTGGTATGTAGCTCTGTCAAACACATCATCAGTATGGGGTAAACC	(SEO	${ m I\!D}$	NO:107)	
	49741	CTCGGGGCTCTCTAAAAGCCACCTTCCTGTGACAAGCATATACTAAGCATCTCAATCAA				
		GCCAGTTCCTCCCCTGTCCAGCCTCCCTCGAGTGCTGAATTGCAGAATATCCCATTTTTC				
		ATTGGATGATAGAAAACCCATTGTTTTCCCAGTGGATTGTAAATTACTTCGGGGTAAATA				
		GGCTGTATATATTCTCAAATTTCCCAGAGTATGTAACTAGGTCACTTTTAGATTCAGATA				
-						
		GATTTTGTTCCTTGAATAGCTAGTACTTTAGGAAACTAAGAAAAAGATCTTTTCAACCTG	•			
		[G,A]			•	
	<i>f</i> s	TATGTAGCTCTGTCAAACACATCATCAGTATGGGGTAAACCTGTGTTCTCTGTGGGTTGT				•
		CATTACCATAGTAGTGTCATTGTATCATTGACAGTGTAATAGTGTGGGGTAGTGTTCTTG				
		TGGTTTCAGCTGCCACTCTGTACTGACTGCTTTCCACTCCA (SEQ ID NO:108)				
	49840	ATCTTTCAACCTGGTATGTAGCTCTGTCAAACACATCATCAGTATGGGGTAAACCTGTG	Buch.	•	*	
		TTCTCTGTGGGTTGTCATTACCATAGTAGTGTCATTGTATCATTGACAGTGTA		٠.		,
		[A,G]				
		TAGTGTGGGGTAGTGTTCTTGTGGTTTCAGCTGCCACTCTGTACTGACTG	•		•	
		CAACATCTTCCTCTTTATCTCAACACTGTAGGTCTACCTGTGTGTG				
		CTCTGCTTGCATGACCCAGGAGTGCCTCCCACTCAATATGGCCACCATGCATG				
		TTCTGCTACTCCCTGTCTCCTGACCCTGCTCCAGCAACACAGACAG		٠		
		TCTATATGTCATATGGTGGGGAATGCCCTTTAGTACTTACT	(SEQ	ID	NO:109)	
			•		•	
	50102	CATTACCATAGTAGTGTCATTGTATCATTGACAGTGTAATAGTGTGGGGTAGTGTTCTTG				
		TGGTTTCAGCTGCCACTCTGTACTGACTGCTTTCCACTCCAACATCTTCCTCTTTATCTC				
		AACACTGTAGGTCTACCTGTGTACTGTGTTTCAGCATCTCTGCTTGCATGACCCAGGA				
		GTGCCTCCCACTCAATATGGCCACCATGCATGGTCATCTTTCTGCTACTCCCTGTCTCCT		•		
		GACCCTGCTCCAGCAACACAGACAGACACCCTTCCTCTTTCTATATGTCATATGGTGGGG				
		[G,A]				
		ATGCCCTTTAGTACTTACTCAGGAGTTAGTTCCTCTGGGAAGCCTTCTGTTCTAGTTTCC				
	- • • • • • • •					
		TTTIGTTACAGCACTTTCACATTGAATTCTGACGTTCTCTGTACTTATCTGCTTTGTGAG	•			
	3 * * * * * * * * * * * * * * * * * * *	ACTGTGAGCTTCCTTAGGCAGTAGCTACTTGTATTCTTAGCACCTTGCCCAGTGCCAGGA				٠
		AACCCTTATTAAGTAAATGAAAAGACAGAACTGACAGACTGGAATTAGAGCTCAAGCTTG		.*		
		CCTCAATCTCAAGCCATTAAGATGAAGGGGAGCCGGGCGTGGTGGCTCACGCCTCTAATC	. (SEQ	\mathbf{ID}	NO:110)	
	~50109	ATAGTAGTGTCATTGTATCATTGACAGTGTAATAGTGTGGGGTAGTGTTCTTGTGGTTTC				
		AGCTGCCACTCTGTACTGACTGCTTTCCACTCCAACATCTTCCTCTTTATCTCAACACTG	•			
		TAGGTCTACCTGTGTACTGTGTTTCAGCATCTCTGCTTGCATGACCCAGGAGTGCCTC				
		CCACTCAATATGGCCACCATGCATGGTCATCTTTCTGCTACTCCCTGTCTCCTGACCCTG	· 1			
		CTCCAGCAACACAGACAGACACCCTTCCTCTTTCTATATGTCATATGGTGGGGAATGCCC	;·			
		[C,G,T]			•.	
		TTAGTACTTACTCAGGAGTTAGTTCCTCTGGGAAGCCTTCTGTTCTAGTTTCCTTTTGTT				
	• • • • • •	, , , , , , , , , , , , , , , , , , , ,				
	• • • • • •	ACAGCACTTTCACATTGAATTCTGACGTTCTCTGTACTTATCTGCTTTGTGAGACTGTGA	;			
		GCTTCCTTAGGCAGTAGCTACTTGTATTCTTAGCACCTTGCCCAGTGCCAGGAAACCCTT	,			
		ATTAAGTAAATGAAAAGACAGAACTGACAGACTGGAATTAGAGCTCAAGCTTGCCTCAAT				
	:	CTCAAGCCATTAAGATGAAGGGGAGCCGGGCGTGGTGGCTCACGCCTCTAATCCCAGCAC	(SEQ	\mathbf{I}	NO:111)	
					•	
	50747	CCAGCCTGGGCAACGTGGCAAAACCCCCATTTCTACAAAAAATATAAAAATTAGTTGGACG				
	. *	TGGGGTGTGTGCCTGTACTCAGGATGCTGAGGTGGGAGGATCACTTGAGCTCGAGAGGC	•			
	7	AGAGGTTGCAGTGAGCTGGGATCACACCATTGCAATCTAGCCTGGGTGATAGAATGAGAC				

CTTGTCTCAAAAAAAAAATAAATAAATAAATAAAGGGGAAGATAAGGATTGGAAACAGAA [G,A] GTGGTTCACTGTGCCTCAAGACTGGTGGAGTGTTTTCCGGAAAGATAATGATGAAAGAG CTGGACAGATAAACAGGGGCCAAATGTAATAGGAGTCTGGATTTTATTCTGAATATGGTA GGGGCTATTGTAGCATCTTATATAGGGAAGTGAAATGAGTACATTCACATTTAAGGAATA TCAACCTGAAAAAAGAGTGGAGACATTGTTGGGGGGAGAGTGAGGTAGACTAGAGGCAGGG AGAATATTTAAATAATTGAGGTAAGAAATGATGAACACCAGTATAAGGTGATGTCTTTAA (SEQ ID NO:112) 51272 . . . TAGACTAGAGGCAGGAGAATATTTAAATAATTGAGGTAAGAAATGATGAACACCAGTAT AAGGTGATGTCTTTAAGGAATGGAGAAGGGAATGAACTGAGAAATATTTTGGAAGTAGAA \ TCAACAGAACTCACTGACTGACTGGATATGGAGGTGAGAAAGAGAAGAGTCAAGAATGAT. ATTCTAATTTCTAACTTGAGTGACTGCATTCAAAGAGAATACAATATCAGGTTCCATTTT GTGCATGCTGAGTTTGAGATGTGTGGGACATGTACAGGGAGCTGTCCAGTAAGCAATTGG [G,A] TATATCAGCTAGCCATTAAGAGAGAGATCTTTGATAGAGAGGTTGTTGCTGAGTTGAGCC ATTGGAATGGCAGGATCACTCAAGAAGAGCTTATAAATGAGAAGAATTCTAGGAATAAG TCCAAAGGGAGAAGTAAAAGAAGAAACTTGCAAAGGACACTGAGAAGAAATAGCTCGAGG GGGGGTCAGTACTACTGGGTAGTGAATATAATAAGAATATCTTTTAGGATTTCTCAACCC . (SEQ ID NO:113). 52842 TCAGGGTGGTTTTGAGGGCTCAGTTAAGTCTCCTTTAGGAAGGTTCAGTTCTGTAGCCTT GGCAAGTTACTTAAAGTCTCTGTGACTATTACCTCATCTCTAAGATGGGGACTAAGCTTG GTGACATAGTTTTACATACCAGGCACAGTGCCTGACTTTTTGGCTCTGTCCTGAAGTCTT CCCTTTGTATATGGTATGTTTCGGGGAATAGGAGCCTCAAGCACTTATCCTTTAAATATT TATCCTCCATCAGTCACTAAACGTTTACTCTGTACTTTTGATAGGTGCTGTGGGGGTCCA [G,A] GGTATAAAAGGTACCITCAAAGTTACTGTTAAAGTGCAGGAAGGTTTTTAAGCAAATTAT GTTTAATGATTTTGACAATCTGACATGCAGGAAAATTAATAGGGCCTATGCAGAAGAGGA GTTTTATGTAACACTCTGTAGTTCAGGAAACAGAGCCCTTGGAAGCAGTGATCTCTCTGG GGAGGAATGTCTGGTATTTGGGAATCTCATGAAATGATAATATACTTAATTTTTATCATG AGCAGCAAAACACAGATTTGCTAGGAGAAAGTCATCGTATGTTGCATTGGGCACTTT (SEQ ID NO:114) 61837 GAGGAACCTCCATGTCATTTTCCATAGTAACTAGACCTTTTTGTTTTTTAACATTTCTAT CAATGTACACCAAGATTCCAATTTCTCCATGTCCTCCCCAACACCATTAAGTGGGGTGGT GGTCTACTACTATTGCTGTTGCTGTTTATTCCTCCCTTCAGTTCTGTAAGTGTTTGCT TCATATATTTAGGAGCTTAATATTAGGTCCATATGAAGTTATAATTTCTTCCTGGTAAAG TGACCCATTTATCATTATGTAATGTCCATCTTTGTCTCTTGTGACAGTTTGTGTCTTAAA [A,G]. TCTATTTTGTCTGATGTAATTATGGCCACCCCTTTTCTCTTTGGGTTCCCGTTTTTATGG AATATCTTTTTCCATCCTTTCACTTTCAGCTTATGTGTCCTTAGATCTAAAGTGAGTC TCATAGATAAGGTATAGTTGATTCTGTATGTGTTATTCACTCAGCAATTTATATCTTTTA GTTAGGGGATTTAATCCATTTACATTTAAAGCAGTTACTGATAGGGAAGGACTTACTGTT. GTCATTTGGCTAGCTACCTTTTTATCTTTGTCCTGTGGCTTTTCTGTTTTTCCCTTCCTC (SEQ ID NO:115) 62018 CATATATTTAGGAGCTTAATATTAGGTCCATATGAAGTTATAATTTCTTCCTGGTAAAGT GACCCATTTATCATTATGTAATGTCCATCTTTGTCTCTTGTGACAGTTTGTGTCTTAAAA TCTATTTTGTCTGATGTAATTATGGCCACCCCTTTTCTCTTTTGGGTTCCCGTTTTTATGG AATATCTTTTCCATCCTTTCACTTTCAGCTTATGTGTCCTTAGATCTAAAGTGAGTC TCATAGATAAGGTATAGTTGATTCTGTATGTGTTATTCACTCAGCAATTTATATCTTTTA [A,G]. TTAGGGGATTTAATCCATTTACATTTAAAGCAGTTACTGATAGGGAAGGACTTACTGTTG TCATTTGGCTAGCTACCTTTTTATCTTTGTCCTGTGGCTTTTCTGTTTTTCCCTTCCTCT TCCCTTCTCATTTCCCTTTGTGTGCATTCTATAGATGCTATTTTTGTGGTTACCATTGCA ACTACATAAAGCATACTAAAGTTATAGCAACTTATTTTAAGCTGTTTACAACTTAACTTC NO:116)

	65562	GACTGAAATTCAGACACATGCAGTCTGATTCTAACCCTCCTGTCTGCCAGCTCTGATCCA			
	03302	GAACTTTGCATGACTGATACGGCTGATAGATTGTCTATGGCTGATAGACTGTCATTTCTG			
		ACCTAAAAGTCTGATCATTTTACATCTGTTCAGACATCTTTGCAGCCTTTCGGTGTCAGT			
		TCCAAAGTTGTTAGTGGGAATTTCAAAGCCTTTAATAATCTAGCCCCACTTTGTTCACTC			
		TCTGTGTAATAACCACATACAACAATTGGCTGCATCTCCATAGCACATGGTACTCCTCCC			
		[A,G]	· · • • ·		
		TIGICITGGTTGTGCCAGCAACACTGGTTTTCGCTTTCTCTTCCTGCTTGTTGAGGTCAT		•	
				•	
		TTCCAAGGCCCAGGTCTTTGTGCTTTTTCCCAAGCTTCCCAGAGCTTCTTCCATACTCCC			
		CTTACTTCCTGAGAŢTTAACTGTTCTCTCTTCAGCGCTTGTCTAGTAAGAAGGAGGCAGC			
		AGCAGCACTGTGGGGTGGGAAAGTGTACCAGCTTTGGAGTCAGACCATTGGATCTCAG	•		
		CCCTACCATTTTCTACTTAGATTTTTTTTAGGACAAATTTCTCCATCTTTCTAAGCCTCCA	(SEQ I	D NO:117).	
			•.	•	
	65780	TCTAGCCCCACTTTGTTCACTCTCTGTGTAATAACCACATACAACAATTGGCTGCATCTC		•	
	03700				
		CATAGCACATGGTACTCCTCCCGTTGTCTTGGTTGTGCCAGCAACACTGGTTTTCGCTTT			
		CTCTTCCTGCTTGTTGAGGTCATTTCCAAGGCCCAGGTCTTTGTGCTTTTTCCCAAGCTT			
	£ 1	CCCAGAGCTTCTTCCATACTCCCCTTACTTCCTGAGATTTAACTGTTCTCTCTTCAGCGC			
		TTGTCTAGTAAGAAGGAGGCAGCAGCAGCACTGTGGGGTGGAAAGTGTACCAGCTTT		÷ :	
		[G,A]			
		GAGTCAGACCATTGGATCTCAGCCCTACCATTTTCTACTTAGATTTTTTTAGGACAAATT		. • •	
	*****	TCTCCATCTTTCTAAGCCTCCAATTGCTCACTTACAAAATTGATATAACATTTACCTTGC		• • •	
				•	
		AAGATTGGTATGGAAGGTAATTAACCCAGTATTTAGAACATAGTAATTAAT			
		TTATTACCATCATTACTATAGTTAGGACACTCACTGTTAGGTGCTATACAAAGAGGGATCA	-	*	
•		TAAAAGGGATGTTGTCTTGGGCTTCTTGGAATAAATGTTGTCCTTTTACTGTATTTTAGA	(SEQ I	D NO: 118)	
-	66092	TTGGATCTCAGCCCTACCATTTTCTACTTAGATTTTTTTAGGACAAATTTCTCCATCTTT	· _ · · ·	• • • • • • • • • • • • • • • • • • • •	•
		CTAAGCCTCCAATTGCTCACTTACAAAATTGATATAACATTTACCTTGCAAGATTGGTAT		•	
				•	
		GGAAGGTAATTAACCCAGTATTTAGAACATAGTAATTAAT		ē	•
		ATTACTATAGTTAGGACACTCACTGTTAGGTGCTATACAAAGAGGGATCATAAAAGGGATG		•	
		TTGTCTTGGGCTTCTTGGAATAAATGTTGTCCTTTTACTGTATTTTAGAATATCATTCTG		٠,	
		[G,A]		•	
		GTCATAATTGTTTGTTGTCATAATAATGAAACATACTTGAATATTAAATTACCCTCTTTT			
	+	TITATTITTTAGCCATGTTAGAAGGTTCCCCACAGCTGAATATGGTTGGCCTCTTTCGAC			
		GAATTATTTCCAAAGAAGGAATACCAGGACTTTACAGAGGCATCACCCCAAACTTCATGA			
		AGGTGCTCCCTGCTGTAGGCATCAGTTATGTGGTTTATGAAAATATGAAGCAAACTTTAG	•	•	
			(CEO T	0 100110	
		GAGTAACCCAGAAATGATGTTGCATTTTTTGCTTTAGCCTGATAATTGAAACTTTCAACA	(SEQ I	р мо:119).	
	66617	ATGAAGCAAACTTTAGGAGTAACCCAGAAATGATGTTGCATTTTTTGCTTTAGCCTGATA			
		ATTGAAACTTTCAACAATCTCTGGAGTGACTTTTTCTCCTCGAATTGAAACAAGTCTATG		•	
		GCAAAAGAAGCTGCATTTTTTTCACAAAAGGGAAGATGGTAACAATGGTCACTTCAAACT			•
		TTTGGGCTAAATTATATGTACACAGAAATGTTCAAAATCATAGTTTTAATGTGTTTTGAA			
		AAGGCCACACAATTATACTTTATCTTTTCTTAATAATCCTGCAAATCTCTGCCCTGAATC			
				:	
		[C, I]			
		GAAATCTGAAAATGTACTGGCTTGAACAAAATTTGTTTTGTGTGTTAGAGTTATAAATCA			
		TTAATCTTTATTTCGGGTGGTTTACGTTTATGCCAGTTCCTTTATATTTAAATTTCTTGT			
		TTTATATATTTTGAATGTCTTTATAGATTTCTTTAAATTTCCTTATAGAACCATTAATAG			
		AAAATCATTACATTTAAAATATACCTTACAGCAAAAGCATCCAAATAAGTATAGGGTTTA		4	
		TGTCCTTATTTTCTTTCAGCTGAATACGAATGAGCACAGTGGTGGAATTTCTGAAGGGA	(SEO I	D NO:120)	
			,, -		
	66892	ATCCTGCAAATCTCTGCCCTGAATCCGAAATCTGAAAATGTACTGGCTTGAACAAAATTT		•	
	00052				
		GTTTGTGTGTAGAGTTATAAATCATTAATCTTTATTTCGGGTGGTTTACGTTTATGCC			
		AGITCCTTTATATTTAAATTTCTTGTTTTATATATTTTGAATGTCTTTATAGATTTCTTT			
		AAATTTCCTTATAGAACCATTAATAGAAAATCATTACATTTAAAATATACCTTACAGCAA	0		
		AAGCATCCAAATAAGTATAGGGTTTATGTCCTTATTTTTCTTTC	•		
		CACAGTGGTGGAATTTCTGAAGGGAAGTGATGAAATTATATTTATT			
•	• • • •	TCCATTTTACCACTGTACCATTATTTGGTTCCTGGAGTTATACACTAATTTTCAGTATAT.	•		
		TACTGTTAAATTACCAACAAGGCAATTTATTTGAAAGATTCCGTTTATCCTGCCATTG			
		CTTTGAAAAGCAGCAGGAAACGAAATCCTTTGACTTGTATCAGCTTCTGCAGAGCATCTT		•	

	•	
)	TGTTTTCCTTTGTCCTTTGTTTCCTACCTTTTGAATCAGATTCCGTTTTAGTCAGGAAGA	(SEQ ID NO:121)
67263	CACTGTACCATTATTTGGTTCCTGGAGTTATACACTAATTTTCAGTATATTACTGTTAAA	,
0/203 .	TTACCAACACAAGGCAATTTATTTGAAAGATTCCGTTTATCCTGCCATTGCTTTGAAAAG	•
1 12 1 Nation	CAGCAGGAAACGAAATCCTTTGACTTGTATCAGCTTCTGCAGAGCATCTTTGTTTTCCTT	
	TGTCCTTTGTTTCCTACCTTTTGAATCAGATTCCGTTTTAGTCAGGAAGACTTCTTGGGA	
	CCATTCTTAGTAACCTGAAATTTCTTTTTTAATTGCATGAAGTGGATTGATCATGAGCAA	
	[G,A]	
	. TGATGTGCTTATTTCTCCCTCACTGTTGAATATCTTTGAACTTGCTGTTTTCAATATGGG	
	. CAGCACAAAGGTGAGAGATACATATTAATAGTAGTATTATTACTCTTATACATTAGATA	
	CCTATATTTAAATGAAAGGCCCAATTTGTAAACATATACATTCATATTCTCTCTTGCCCC	
	. AAGTTTTAGGAACATGTTAGGATATAGGAGACTTAATTTATAATAATGAGAGCATTTTTT.	.*
	TATTITACTAAAGCCATTTTTATAGTCAACTATCTTTTCTTATTTGTGTGATTAGAACTT	(SEQ ID NO:122)
	Y .	(0_{ _ (0_1)
67651	ATAGTAGTATGTATTACTCTTATACATTAGATACCTATATTTAAATGAAAGGCCCAATTT	
07031	GTAAACATATACATTCATATTCTCTCTTGCCCCAAGTTTTAGGAACATGTTAGGATATAG	
* * * * * * * * * * * *	C.C. CTT. ATT. ATT. ATC. C.C. CO.T. CTT. ATC. A.C. CO.T. CTC.	10
	AACTATCTTTTCTTATTTGTGTGATTAGAACTTAGAAAAATATTTACTAGTTGAAGTTAT	
		•
	TATCAGTTTTTAATTTAGTTCTTAAACTCATTTCACTTCTAATAATTTCTGTTATAAATT	
	- · -	<i>:</i>
	CCAGCATTTTAATGAAAATCTAATGATGTAATAGGCATTTTCTTTATTTGAACCTACCT	
	TTTTATTTTCTGAACCAAAGAGAAAGATGGACTGGTGTTTGTGAAACATTTTTAAAAATG	•
· · · · · · · · · ·	TAGTTTCATTTATATTAGTTATGTTTGATAAATGTCTCAGTATTTTTATAATATGATAAG	
	CCTGGGATTCTACTTTTAGGGTTATTTGTACTTTTGAGTAATATATAAAGTGACAATATT	·
	AAGGTACATGATCAGCTCTTTCTATTTTTACTCGTAAAAATTATGGAAATGAATAATTTT	(SEQ ID NO:123)
		×
67935	ATTTCTGTTATAAATTGCCAGCATTTTAATGAAAATCTAATGATGTAATAGGCATTTTCT	
	TTATTTGAACCTACCTCTTTTATTTTCTGAACCAAAGAGAAAGATGGACTGGTGTTTGTG	
* * * * * * * * * * * * * * * * * * * *	AAACATTTTTAAAAATGTAGTTTCATTTATATTAGTTATGTTTGATAAATGTCTCAGTAT	, -
	TTTTATAATATGATAAGCCTGGGATTCTACTTTTAGGGTTATTTGTACTTTTGAGTAATA	
	TATAAAGTGACAATATTAAGGTACATGATCAGCTCTTTCTATTTTTACTCGTAAAAATTA	•
	[C,T]	
	GGAAATGAATAATTTTGCTAACAACTTTGAAATTTCAAACTTCTGGAAAATATGAAAATA	
	TTCATTGTTCATTATGAATTTAAATTGTAAGGTATGAATGTGATTTGTCTGTACATCTTG	
	TATCTTTTCCAAAAAATGATTCTGTATCTTTTGGAAAAAAGCCGAGAGTTGAAGATAGTA	*
	TATTTCTGGTAGTACTGAATATTTACTTACAGTTTCTATCAAAAATATATAT	
والمناورة والمركوبي	AAAATTACTTGTTTTCCAGTTTTTATTTTTTTAGAGAAAATTCTTAAGTCTCAGTTTCC	(SEQ ID NO:124)
69000	TTCAGAAATAACTTATCAGTTATTTCTGTAAGCTTCTTGCTTACCTGGATACCTGACAGG	
	. TGAGATGGCTGTAGCAGACACTGGCAGTTCCCTGCCCACACACCTGTCCCTGTCCACAGC	÷ .
	TGCACAAGGCAGCTCTGTGTGCAATTGCCAGCATCTGCTCCTCTGTTCTCAGGGAATCTT	
	TGTTAGAAAAATGCTGCCATATTTGTTTCTCACCTATTAGTCTTGTCTCCCAGTCAAGAG	
14 9,04111	AATAAATTTATGCAAGCAGAGATTGTACTTTACAGTATTTTGTCTTTGAGCTTGGCATTA	
		•
	GTTGCATTTGTAAAAATGTGGCATGGCTTCCTCATCCCCCAATAGGAACTTTGCCAGCCC	
	TTTTGTTCTCATGGAACTTCCTTTTTTGAAAAGAGCACCAAAGGAGTAAAAATACTGTGG	•
	AGGGAGCAACCCTCCTTTGCCATATGCTCTCATTGGGAGACATGTGGAGCAGTCTGAAGT	* =
	CATTTAGGCCACTCTCTGGGAGAGCACATCCTATGATGTTCTCCCAGCCTAGCCCCTTCC	(125)
	ACTGTGCTCAAGTCCAAGCTGACCAGCTTTCTGACCACAGTGTAAACAAAGATGATTGTC	(SEQ ID NO:125)
	CTGTGTGCAATTGCCAGCATCTGCTCCTCTGTTCTCAGGGAATCTTTGTTAGAAAAATGC	
	TGCCATATTTGTTTCTCACCTATTAGTCTTGTCTCCCAGTCAAGAGAATAAATTTATGCA	
	AGCAGAGATTGTACTTTACAGTATTTTGTCTTTGAGCTTGGCATTAGGTTGCATTTGTAA	•
	AAATGTGGCATGGCTTCCTCATCCCCCAATAGGAACTTTGCCAGCCCTTTTGTTCTCATG	
	GAACTTCCTTTTTTGAAAAGAGCACCAAAGGAGTAAAAATACTGTGGAGGGAG	
	[C,T]	
	CTTTGCCATATGCTCTCATTGGGAGACATGTGGAGCAGTCTGAAGTCATTTAGGCCACTC	
	TCTGGGAGAGCACATCCTATGATGTTCTCCCAGCCTAGCCCCTTCCACTGTGCTCAAGTC	
	. To too to to the that he reconded indeed income to the total of the	

 ${\tt CAAGCTGACCAGCTTTCTGACCACAGTGTAAACAAAGATGATTGTCAGTGGGCCCCAGAATCCTATACCCAGA \ (SEQ ID NO:126)}$